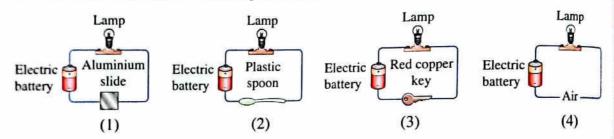
1 Cairo Governorate

St. Joseph School

Answer the following questions:

Question

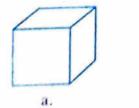
- Give reasons for :
 - 1. Iron rods not copper rods are used in building concrete houses.
 - 2. The symbol of sodium is (Na) not (So) as it is expected.
 - 3. When the ball of the pendulum reaches the maximum height, the kinetic energy equals zero.
 - 4. Living organisms must be classified.
- (I) Complete:
 - 1. The second energy level "L" is saturated with electrons.
 - 2. In the following figure: The lamp is illuminated in, cases only.



- 3. Oven is a source of energy.
- is a modification in the behaviour of a living organism at specific time of the day or year.
- What happens when ...?
 - 1. Rubbing your hands together.
 - 2. Opening of a perfume bottle in a closed room.

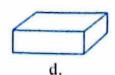
Question 🙎

- O Choose the correct answer:
 - 1. The following cubes have he same mass. Which one has the highest density?.....









Earth's surface

2. In the following figure:

At which point the potential energy of

the ball = zero ?

a. A

b. B

c.C

d.A&C



- a. Hg
- b. Ag
- c. Cu
- d. Au

C

B

4. In the solar cells, the solar energy changes into energy.

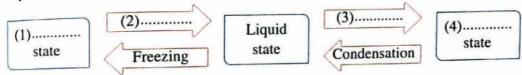
- a. kinetic
- b. light
- c. electric
- d. sound

B Give an example of each of the following:

1. An animal of big size.

A plant carries small-sized leaves.

Ocomplete the following diagram:



Question

Ochoose the odd word or symbol out, then write the scientific term of the other:

- $1._{2}$ He $-_{3}$ Li $-_{12}$ Mg $-_{19}$ K.
- 2. Jellyfish Octopus Earthworm Bird.
- 3. Acidic solutions Sugary solutions Salt solutions Alkaline solutions.
- 4. Ice Wood A piece of Iron Petroleum.

B Show by drawing the electronic configuration for each of the following atoms :

- 1. 10Ne
- 2. 17Cl
- 3. ₂₀Ca
- 4. 1H

What is meant by ...?

- 1. The density of water is 1gm/cm³.
- 2. The boiling point of water = 100°C.
- 3. The kinetic energy of an object = 40 joule.

Question

Write the scientific term:

- 1. Anything that has a mass and a volume.
- 2. It is the ability to do work or to make a change.
- 3. They are living organisms that can't be seen by the naked eye, but they spread everywhere around us.

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| It is the smallest part o The sum of the potenti | f matter which can o al and kinetic energ | exist freely, and it has ies of an object. | the properties of ma | itter. |
|--|--|---|---|-----------|
| (B) Write the symbol of the | following elements | s: | | |
| 1. a. Nitrogen. | b. Argon. | | c. Iron. | |
| If the nucleus of an or number and the mass written. | xygen atom contair number of oxygen | ns 8 protons and 8 ne and how the symbol | utrons, find the ato of oxygen element | mic is |
| Calculate: | | | | |
| The density of iron cube | , its mass is 78 gm. a | and its volume is 10 cr | n ³ | |
| 2 Cairo Gove | | Leaders Languag | | |
| Answer the following ques | tions : | | | |
| Question 1 | | | | |
| Complete the following | statements: | 500000 (MM) | | |
| 1. An alloy of making heating coils. | | wels, while an alloy of | is used in | |
| 2 and | plants reproduce b | y spores. | | |
| 3. The liquid state of ma | tter has sha | ape and volu | me. | |
| 4. The mass number is the | he sum ofr | number andr | number. | |
| B Put (√) or (x), and cor | rect the wrong one | s: | | |
| 1. Heat is transferred in | solids by convection | and radiation. | (|) |
| 2. The positive pole in the | he simple electric cel | l is copper. | (|) |
| 3. Two iron pieces with | equal masses will ha | ve different volumes. | (| .) |
| 4. Ammonia molecule c | onsists of 3 atoms of | 2 different elements. | (| 8 8 |
| O Problem: An object moves with s | peed 30 m/s, calculat | e its kinetic energy kno | owing that its mass | |
| is 500 gm. | | | | |
| Question 2 | | | | |
| Choose the correct ans | wer: | | | |
| 1. All the following solu | utions conduct electri | | olution. | |
| a, salty | b. acidic | c. alkaline | d. sugary | |
| 2. In the car engine, the | chemical energy cha | | ergy. | |
| a. heat | b. light | c. mechanical | d. electric | |
| 120 | | | | |

| 2 | Lloat | ic | tranet | ferred | through | enana | h | |
|----|-------|----|--------|--------|---------|-------|----|--------------|
| 3. | neat | 10 | tiansi | CIICU | unougn | space | Uy | ************ |

a. convection.

b. conduction.

c. radiation.

- d. conduction and convection.
- 4. Frogs hide themselves is mud during winter, it is called
 - a. aestivation.
- b. hibernation.
- c. camouflage.
- d. migration.

(B) Write the scientific term :

- 1. The plants which feed on insects.
- 2. A group of animals that have 1 pair of incisors in each jaw.
- 3. A group of gases their molecules are monoatomic molecules.
- 4. The change of matter from liquid state to gaseous state by heating.

O Compare between:

Electrons and protons. (concerning: their charge - their position in the atom).

Question

Give reasons for:

- 1. The atom is electrically neutral.
- 2. When you leave the perfume bottle opened, you smell it all over the room.
- 3. Wind energy is preferable than fuel energy.
- 4. In monkeys, bones of the front limbs and fingers are elongated.

B Cross the odd word out:

- 1. Conduction Convection Friction Radiation.
- 2. Electric fan Electric heater Electric bell Petrol stove.
- 3. Wax Aluminium Butter Ice.
- 4. Sodium Ammonia Water Hydrogen chloride.

What is the function of ...?

1. The long beak in heron.

2. The palm legs in the geese.

Question [4]

What happens when ...?

- 1. Using water in extinguishing of petrol fires.
- 2. An electron gains a quantum of energy.
- 3. The chameleon can't change its color.
- 4. The ants have 4 pairs of jointed legs.

| 20 | |
|--|---|
| (I) Give one example of each of the follo | owing: |
| 1. Huge tree. | 2. Big size animal. |
| 3. Gymnosperm plant. | 4. Device uses solar energy. |
| O Draw the electronic configuration an | d show the type of : |
| 1. ₁₉ K | 2. ₁₀ Ne |
| | |
| 3 Cairo Governorate | Mokattam Language International School |
| Answer the following questions : | |
| Question 1 | |
| O Complete the following statements: | |
| | upper jaw of jerboa is, while in the upp |
| 2. Mechanical energy of an object = | energy + energy. |
| 3. In the dynamo energy char | nges into energy. |
| 4. Potential energy depends on | and of the object. |
| (B) Give an example of each of the follow | wing: |
| 1. An animal with internal body support | |
| 3. A liquid element consists of one ator | |
| What is meant by atomic number? | |
| Question 2 | |
| Write the scientific term of each of the | ne following : |
| 1. Positive charges that are found in the | e nucleus of the atom. |
| 2. Energy stored in the object due to th | e work done on it. |
| 3. The ability of some living organisms | s to hide from their enemies. |
| 4. A method of transferring heat through | gh solids. |
| 5. The temperature at which the substa | nce changes from liquid to gaseous state. |
| a see a contract of the contra | C |

- The branch of biology that searches for similarities and differences among living organisms.
- (B) What happens when ... ?
 - 1. Rubbing your hands together.
- 2. Adding a drop of ink in water.
- 3. Wet iron nail is left in the air.
- When a piece of iron of mass 78 gm is put in a graduated cylinder containing 100 cm³ of water, the reading of the cylinder becomes 110 cm³ Calculate the density of iron.

Question 3

| D put (√) or (x) and co | orrect the wrong one | es: | | | | |
|---|--|---------------------------|----------------|------|-----|--|
| 1. Mass number is the | number of neutrons. | | | (|) | |
| 2. Heat is transferred | 2. Heat is transferred through gases by convection only. | | | | | |
| 3. Bean plant is considered from dicotyledon plants. | | | | |) | |
| 4. The third energy level is saturated with 18 electrons. | | | | |) | |
| 5. Flies have six legs. | | | | (|) | |
| 6. Sodium and potass | | ls | | (|) | |
| B Write the electronic | configuration of the | following elements : | | | | |
| 1. ₁₈ Ar | 2. ₇ N | 3. ₁₇ Cl | | | | |
| (i) Give reasons for : | | | | | | |
| | is transferred to the | Earth by radiation. | | | | |
| | nedgehog are extendir | | | | | |
| Ouestion 4 | | | | | | |
| Question 4 | | | | | | |
| Choose the correct a | | | | | | |
| 1. The smell property | is a distinguishing fa | actor between | | | | |
| a. wood and plastic | o. | b. silver and gold. | | | | |
| c. vinegar and perf | | d. iron and copper. | | | | |
| 2 is from to | eethless mammals. | D . | d. Lion | | | |
| a. Armadillo | b. Rabbit | c. Rat | u. Lion | | | |
| 3. Balloons of festiva | ds are filled with | gas. | d. helium | | | |
| a. oxygen | b. nitrogen | c. carbon dioxide | | | | |
| 4. From the examples | s of living organisms | that undergo aestivation | d. quail. | | | |
| | | C. Hawk. | | | | |
| 5. In the simple elect | ric cell, ene | rgy is converted into ele | d. light | | | |
| a. mechanical | b. chemical | C. Sound | u. ng | | | |
| 6 is a rene | wable source of energ | gy. | d. Natural gas | | | |
| | | a Wind | | | | |
| 7. An object of mass | 4 kg. is moving at sp | eed of 3 m/sec., its kine | d. 18 joule. | | | |
| a. 16 ioule | b 64 joule. | C 3 | W-12 | | | |
| 8. Birds migration re | presents ad | aptation. | d. anatomical | | | |
| a. functional | b. structural | c. behavioural | | 2954 | | |
| | | | | | 123 | |

| Mention the symb | ols of the following ele | ements : | |
|--|--|----------------------------|---------------------|
| 1. Oxygen. | 2. Copper. | 3. Iron. | 4. Hydrogen. |
| O Compare between | : | | |
| | hnids (according to : the | number of legs) | |
| | (according to the intern | | |
| | | | |
| 4 Cairo | Governorate | Al-Ola Languag | e Schools |
| Answer the following | questions: | 70077 | |
| Question 1 | | | |
| Choose the correc | t answer : | | |
| | ubstance is a I | property. | |
| a. chemical | b. physical | c. biological | d. magnetic |
| 2. On adding 70 cm | n ³ of water to 30 cm ³ of | f alcohol, the volume of | the mixture becomes |
| cm ³ . | | | |
| a. 60 | b. 97 | c. 100 | d. 102 |
| | can be stored in | | |
| a. car batteries. | | b. stretched spring. | |
| c. raising a load | No. of the country of | d. car lamp. | |
| Pea plant belong | gs to plants. | | |
| a. fern | b. dicotyledon | c. monocotyledon | d. gymnosperm |
| (B) Choose the odd w | ord out, then write the | scientific term of the | others : |
| 1. Neon - Argon - | Oxygen - Xenon. | | |
| 2. Fluorine - Wate | r – Bromine – Carbon. | | |
| 3. Electric heater - | - Electric iron – Electric | fan - Electric stove | |
| 4. Wheat - Pea - C | Corn – Bean – Pine. | | |
| © Give a reason for | : | | |
| A piece of wood fl | oats on water surface, w | while a piece of lead sink | cs in it. |
| Question 2 | | | |
| № Put (√) or (x): | | | |
| | has a definite melting p | oint | () |
| | aseous molecules is lim | | () |
| 101 | | | |

| Fin | al | Fx | am | inat | in | 00 |
|-----|------------|----|------|------|----|----|
| | U 1 | LA | uIII | 1110 | 10 | 13 |

- 3. All mammals walk on four limbs.
- 4. Birds migration is an acquired behaviour.

()

Mention an example of each of the following:

- 1. Very active metal.
- 2. A solid substance which is soft at room temperature.
- 3. A plant carries large sized leaves.
- 4. An edentate animal.

@ What happens when ... ?

Dipping two different metals connected by a wire in an acidic solution.

Question [

Mrite the scientific term:

- 1. The simplest form of matter which can't be analyzed into simpler form.
- 2. The number of positive protons in the nucleus.
- 3. The product of multiplying the force by the displacement.
- 4. Plants that can't be distinguished into roots, stems and leaves.

B Complete the following:

- 1. Hydrogen molecule consists of atom(s), while argon molecule (inert gas) consists of atom(s)
- 2. and are from principles used in classifying plants.

© Compare between:

| P.O.C | Angiosperms | Gymnosperms |
|----------------|-------------|-------------|
| 1. Definition: | | |
| 2. Example : | | |

Question 4

Ochoose from column (B) what suits in column (A):

| ose from Column (b) what sa | (B) |
|--|--|
| 1. Helium 2. Aluminium 3. Plastic 4. Nickel chrome | a. used in making jewels b. used in making handles of screwdrivers. c. used in making heating coils. d. used in making cooking pans. e. used in filling balloons during festivals. |

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- (B) Write the symbols of the following elements:
 - 1. Sodium.
- 2. Calcium.
- 3. Aluminium.
- 4. Chlorine.

- (What is the function of each of the following:
 - 1. The paddles of whales and dolphins.
 - 2. The two wings of a bat.

| 5 | Cairo | Governorate | 9 |
|---|-------|-------------|---|

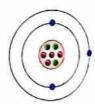
Alfarouk Islamic Language School

Answer the following questions:

Question 1

- O Complete the following statements :
 - 1. When some metallic spheres are put in a container and shaken, the temperature of the spheres increases as energy changes to energy.
 - 2. Spare parts of cars are coated with grease to protect them from

 - 4. The symbol of potassium is while that of gold of
 - 5. Monkeys have to climb trees and catch things.
 - 6. The diagram represents an atom. This atom has a mass number of



- B Give reasons for :
 - 1. Some animals hide in humid burrows in summer.
 - 2. Solids keep their shape and volume.

Match:

| (A) | (B) |
|----------------------|--|
| 1. Rubber | a. potential energy + kinetic energy. |
| 2. Bat | b. the smallest building unit of a matter that can exist |
| 3. Molecule | freely and carry the properties of matter. |
| 4. Mechanical energy | c. good electric conductor. |
| | d. soft at ordinary temperature. |
| | $e.\frac{1}{2} \times mass \times (speed)^2$ |
| | f. front limbs are modified into wings. |

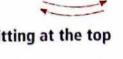
Question 2

| (A) Choose | the | correct | answer | • |
|-------------------|-----|---------|----------|---|
| Choose | rue | Concet | diisvvci | • |

- 1. In a kettle, hot water rises up by
 - a. radiation.
- b. convection.
- c. conduction.
- d. condensation.
- 2. An iron ball at 60°C is dropped in a beaker containing water at 40°C, the heat will
 - a. flow from the iron ball to the water.
- b. flow from the water to the iron ball.
- c. not flow from the iron ball to the water or from the water to the iron ball.
- d. none of the above.
- 3. Which points has the same potential energy?.....
 - a. X & O
 - b. Y & Z
 - c. X & Z
 - d. P & Y
- 4. are birds that migrate in winter.
 - a. Quails
- b. Ducks
- c. Bats
- d. Geese
- 5. When a student adds 200 ml of ethyl alcohol to 300 ml of water in a cylinder, he finds that the volume of the mixture was less than 500 ml as he expected. This is because
 - Water evaporates quickly.
 - b. The molecules of alcohol are in a continuous motion.
 - c. Some alcohol may have spilt down when putting it in the cylinder.
 - d. Alcohol molecules distribute within the space between water molecules.
- 6. An object has a mass of 45 grams and a volume of 30 cm³. What is the density of the object ?
 - a. 0.2 gm/cm³
- b. 1.5 gm/cm³
- c. 5 gm/cm³
- d. 20 gm/cm³
- 7. How many electrons are there in the last energy level of the atom with atomic number 7 ?
 - a. 3

c. 2

- d. 5
- 8. From the following figure, maximum kinetic energy is at point
 - a. A
 - b. A & C
 - c. B
 - d. C



What is the gravitational potential energy stored in a 55 kg teenager sitting at the top of a 4 m high tree ? (The Earth's gravity equals 10 N/kg).

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O Cross the odd word out and write the relation among the others:

- 1. Sulphur Silver Phosphorus Air.
- 2. Julius House fly Honey bee Ant.
- 3. Maize Pine Wheat Pea.
- 4. Tiger Lion Rabbit Sloth.

Question 3

O Correct the underlined words:

- 1. In the simple electric cell, heat energy converts to electric energy.
- 2. Ammonia molecule is formed of 1 hydrogen and 1 chlorine atoms.
- 3. Insectivorous plants need nitrogenous substances to build carbohydrates.
- 4. Nickel chrome alloy is used in making jewels.
- 5. Birds like hawks have wide indented beaks to feed on fish and mosses.
- 6. The energy level K is saturated by 8 electrons.
- 7. Gold easily reacts with oxygen when exposed to humid air.
- 8. Adiantum is a unicellular organism.
- What is meant by ... ? Species.

Give an example of :

- 1. A device that changes electric energy to kinetic energy.
- 2. Functional adaptation.

- 3. Monoatomic liquid element.
- 4. Animal with external support.

Question [4]

Write the scientific term :

- 1. The work done by an object during its motion.
- The science that deals with classifying living organisms into groups according to their similarities and differences to ease their study.
- 3. The ability of some living organisms to hide from their enemies.
- A substance which is formed due to the combination of two or more atoms of different elements with constant weight ratios.
- It is the temperature at which the matter begins to change from the solid state to the liquid state.
- The measuring unit of energy.
- The amount of energy gained or lost by an electron to transfer from an energy level to another.
- 8. Modification of living organism's behaviour or body structure or function of its organs to adapt with environmental conditions.

| (B) What happens when | a piece of iron is put in | a bowl filled with water ? Why ? | |
|---------------------------------|------------------------------|---|---------|
| | following formula : | | |
| 1. Phosphorous atom | TAT | | |
| a neutro | 1 145 W 155 | b. An atomic number of | 31 |
| | nfiguration of | 5.741 atolitic number of | 15 P |
| | ive or an inactive elemen | t ? | 15 |
| | and made to demen | C 1 | |
| 6 Cairo G | overnorate | Manaret El-Eman Language Schools | |
| Answer the following q | uestions : | | |
| Question [1] | | | |
| Write the scientific | erm : | | |
| 1. It is the temperature | e at which the substance of | changes from solid state to the liquid | SW 3200 |
| 2. The spaces between | n molecules. | manges from solid state to the fiquid | state. |
| | ork or to make a change. | | |
| | the heat is transferred thro | ough solids | |
| B Give reasons for : | | Jugar solids. | |
| | gen and helium rise up in t | ha air | |
| | atom is positively charged | | |
| | ad at the top of the fridge. | • | |
| 4. Amoeba is from m | | | |
| | configuration for the foll | owing alamanta at | |
| 1. Calculate the num | per of neutrons | owing elements, then : | |
| | om is active or inactive an | d mention the reason | |
| a. ³⁵ Cl | |). ¹⁶ O | |
| Question 2 | | 8 | |
| | | | |
| Complete the follow | ing statements : | | |
| 1. The front limbs of | dolphins are modified into | to perform the role of | |
| consistants of two | atoms is | s of only one atom is while | that |
| 3. From the teethless | mammals are an | d | |
| 4. An alloy ofmaking heating co | is used in making jewel | ls, while an alloy of is used | in |
| | | المعاصد علدم لغات (Notebook) / ۶۱ تيبرم ۱ (م: ۱۷) | 120 |

| В | What happens when ? | | | | |
|---|--|-------------------------------------|----------------------|--------|--|
| | | Rubbing your hands t | together. | | |
| | 3. An electron in "K" energy level gains a quan | tum of energy. | | | |
| | 4. Predatory plants can't capture insects for a lo | | | | |
| 0 | Problem : | | | | |
| | Find the weight of an object of potential energy | 88 joule when it is fou | ind at a height of t | | |
| | | 3 | and the first of the | 1 m | |
| _ | Question 3 | | | | |
| A | Put (✓) or (寒), then correct the wrong ones | : | | | |
| | 1. Molecules of the same substance are differen | nt from each other. | Y . | (| |
| | 2. Mass number is the sum of protons and elect | trons. | 10 | (| |
| | 3. Hibernation of some reptiles and some insec | ts is structural adaptat | ion. | ((| |
| | Pea plant belongs to dicotyledon. | | i i | (| |
| B | Compare between (one point only) : | | | • | |
| | A Theory and the control of the cont | 2. Kinetic energy and | potential energy | | |
| | A General Company of the Company of | 4. Protons and electron | | | |
| C | Mention one example of each of the following | | (8-/ | | |
| | 1. Insectivores plant. | .9 . | | | |
| | 2. An animal which doesn't have a body suppo | ort. | | | |
| | | 5055 | | | |
| | Question 4 | | | | |
| A | Choose the correct answer : | | | | |
| | 1. On adding 100 cm ³ of water to 100 cm ³ of a | alcohol, the volume of | mixture equals | | |
| | cm. | | | | |
| | | c. 180 | d. 210 | | |
| | 2. An object has a kinetic energy 64 joule and | its mass 8 kg, so its sp | peed equals | | |
| | | c. 4 m/sec. | d. 2 m/sec. | | |
| | a. pine. b. bean. | | | | |
| | a. pine. b. bean. 4. Sodium is symbolized by | c. vougheir. | d. maize. | | |
| | | o C: | | | |
| | | c. Si | d. Na | | |
| B | Mention one difference : | | | | |
| | 1. Fish and desert snail (body support). | Helium and hydrog | gen. | | |
| | 3. Element and compound. | 1200 | | | |
| | 4. Transfer of heat by convection and transfer | of heat by radiation. | | | |
| | | | | | |

- @ What is the function of each of the following ...?
 - 1. The elongated front limbs in monkey.
 - 2. Strong and sharp crooked beaks in hawks.

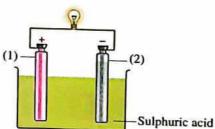
7 Giza Governorate

Modern Narmer Language School

Answer the following questions:

Question

- Ocomplete the following statements:
 - 1. When an object is moved upwards, the energy changes from to
 - 2. The gaseous element whose molecule is composed of 2 atoms is while that which is composed of one atom is
 - 3. The amount of energy needed or lost to transfer an electron from energy level to another is called
 - 4. Heat transfers in solids by but it transfers in gases by
 - 5. The front limbs in bats are modified into
- B Examine the opposite figure :
 - 1. What is name of the figure?
 - 2. Complete labels (1) and (2).
 - 3. What happens when you connect (1) and (2) with an electric wire?



- Write the chemical symbol of each of the following elements:
 - 1. Calcium.
- 2. Silver.
- 3. Potassium.

4. Iron.

- 5. Mercury.
- Carbon

Question 2

- Write the scientific term:
 - Positively charged particles in nucleus of an atom.
 - 2. Temperature at which a substance changes from solid state to liquid state.
 - 3. Smallest part of matter that can exist freely and has properties of the substance.
 - 4. The energy which is stored in an object due to work done on it.
- (1) A body of mass 6 Kg moves with speed 4 m/s, Calculate kinetic energy of this body.

O Join the correct pairs from the column (A) and (B):

| (A) | (B) |
|---|---|
| In making cooking pots we use In making handles of screwdriver we use To distinguish between iron and gold we use Water molecule is made from In making jewels we use | a. silver. b. oxygen and hydrogen. c. oxygen only. d. aluminium. e. color. f. plastic. |

Question [3]

| What is the element which has the following symbol: | | | | | | | |
|---|------|------|-------|-------|--|--|--|
| 1 8 | 2 Cu | 3. H | 4. Zn | 5. Na | | | |

(B) Give reasons for :

- In normal conditions, atoms of elements are electrically neutral although they contain positive and negative particles.
 Hawks have strong and sharp beaks.
- 3. It is better to place the electric heaters down on the ground.
- 4. In atoms of elements the mass number is greater than the atomic number.

(What is meant by ...?

1. Camouflage.

2. The compound.

Question 4

| Choose the correct answer: | |
|--------------------------------------|---|
| 1. In cold winter, some animals bury | themselves in mud to overcome the decrease in |

| temperature, this | is called | | |
|---------------------|-----------------------|----------------------|------------------|
| a, aestivation. | b. migration. | c. hibernation. | d. taxonomy. |
| 2. Chemical energy | can be stored in | | |
| a. car battery. | | b. raising an object | t upwards. |
| c. electric lamp. | | d. a moving car. | - 1.10 F 1.00 F |
| 3. The energy level | (N) is saturated with | | |
| a. 2 electrons. | b. 32 electrons. | c. 8 electrons. | d. 18 electrons. |

- 4. An object its mass 5 kg is placed at height 2 m, acceleration due to gravity is 10 m/s², thus weight of the object equals
 - a. 10 N. b. 100 N. c. 50 N.

d. 20 N.

| of copper. A piece of copper its volume is 200 cm³ and has a mass 164 grams, calculate density | | | | | | |
|---|---|--------------------------------|---------------------------|--|--|--|
| 10 The following are at | toms of 3 elements: | | | | | |
| 1. ¹⁶ O a. Write electronic | 2. 35Cl configuration of each energy levels in each | 3. $^{40}_{20}$ Ca atom, atom. | | | | |
| | overnorate | 6 th October D | irectorate | | | |
| Answer the following q | uestions : | | | | | |
| Question 1 | | | | | | |
| O Complete the follow | ving statements · | | | | | |
| | | and | | | | |
| 2. Helium molecule atom. | Potential energy of body depends on | | | | | |
| | solutions are | | ectricity. | | | |
| VI III 22 | nent resource of energy | | | | | |
| 2 10 1 | | | is used in heating coils. | | | |
| _ | ges energy to | energy. | | | | |
| (B) Give reasons for : | | | | | | |
| 1. The atom is electr | ically neutral. | 2. Some birds have | wide indented beaks. | | | |
| Write the chemical | symbol for each : | | | | | |
| 1. Potassium. | 2. Iron. | 3. Carbon. | 4. Oxygen. | | | |
| Question 2 | | | | | | |
| O Choose the correct | answer: | | | | | |
| 1. From the substance | es that float on water is | i | a a anaidi | | | |
| a. iron. | b. oil. | c. copper. | d. aluminium. | | | |
| 2. From animals with | soft bodies | | 1.7.4 | | | |
| a. snail. | b. jellyfish. | c. snake. | d. turtle. | | | |
| 3. Heat transfers by o | conduction through | | d. vacuum only. | | | |
| a. gases only. | b. liquids only. | c. solid only. | ar racasar only | | | |
| | | | 133 | | | |

| | 4 The attraction force | hatuwan natida in | | | | | |
|---|---|-------------------------|--|---|--|--|--|
| | 4. The attraction force | | | d infinite. | | | |
| | a. strong. | b. weak. | c. medium. | d. infinity, | | | |
| | 5. Taste property distin | | | J | | | |
| | | | c. wood and plastic. | d. Iron and copper. | | | |
| | 6. Electric lamp change | | | #P 000 000 000 | | | |
| | a. light | b. sound | c. chemical | d. magnetic | | | |
| Œ | Define : | | | | | | |
| | 1. Element. | | 2. Mechanical energy | /. | | | |
| 0 | Give one example for | each : | | | | | |
| | 1. Substance soft at roo | | 2. Substance sink in | water. | | | |
| | 3. Very active metals. | | 4. Arthropods have 3 | | | | |
| | | | And Annual Poster State | 1 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | | | |
| • | Question 🕙 | | | | | | |
| 0 | Write the scientific te | rm : | | | | | |
| | 1. Temperature at which | h matter begins to ch | ange from solid to liqui | d. | | | |
| | 2. Invertebrates which have jointed legs. | | | | | | |
| | 3. Work done during th | e motion of an object | i. | | | | |
| | 4. Modification in orga | | | s to be adapted. | | | |
| | 5. Atom that gains a qu | | | | | | |
| | 6. The sum of protons | | us. | | | | |
| 0 | | | | | | | |
| U | Write electronic confi | guration form each : | | | | | |
| | 1. ⁷ ₃ Li | | 2. ²⁰ ₁₀ Ne | 02 | | | |
| (| Find the density of a p | piece of iron if its ma | iss 78 gm and its volur | ne 10 cm ³ | | | |
| | Question 4 | | | | | | |
| | Put (✓) or (×), then | correct the wrong on | es : | | | | |
| | 1. Cold air rises up and | | | () | | | |
| | 2. Iron rusts when expe | | | () | | | |
| | 3. Webs of cellular pho | one cause water pollut | ion. | () | | | |
| | 4. Animals can be clas | | 7. 15.7 | () | | | |
| | | | itter changes from liqui | d to gas. | | | |
| | Heat transfers in spa | ice by radiation. | | () | | | |
| O | Compare between so | lid and gas in regardi | ng (intermolecular spa | ice, examples). | | | |
| 0 | A ball launched upwa potential energies of | | up to height 4 m find t is 5 newton and has a | | | | |
| | | | | | | | |

Giza Governorate

Egypt Dream Language School

Answer the following questions:

| | 200 |
|----------|-----|
| Question | |

| | | ract | ancwor | |
|----------|-----|---------|---------|---|
| O choose | the | correct | aliswei | • |

- 1. An object its kinetic energy is zero when the object is at the
 - a. maximum height. b. Earth's surface.
- c. midpoint.
- d. no correct answer.

- 2. Resources of permanent energy is
- b. coal.
- c. petrol.
- d. nuclear reaction.
- 3. When the atomic number of an element equals to its mass number this means that there is no
 - a. electrons.
- b. protons.
- c. neutrons.
- d. nucleus.

- 4. Chemical energy can be stored in
 - a. car lamp.

b. raising a load upwards.

c. sound.

d. car battery.

B Write electronic configuration then calculate:

39 K

a. Write the symbol name.

b. The mass number.

c. The number of neutrons.

d. The number of electrons in the outer level.

Ocalculate the potential energy of:

An object of 20 N weight is placed at 5 m height.

Question 2

O Give reasons for :

- 1. Spider isn't considered from insects.
- 2. The nucleus is electrically positive.
- 3. The freezer of the fridge is found at the top of the fridge.
- 4. Cooking pots are made of copper or aluminium.

Give an example for each of the following:

- 1. Inert (Noble) gas.
- 2. A device converts solar energy into electric energy.
- 3. Solid substances are soft in room temperature.
- 4. Hibernation in amphibia.

Show by drawing the electric configuration for each of the following atoms:

1.40 Ca

2. 32 S

Question 3

| Occupiete the following statements | | Complete | the | following | statements | • |
|------------------------------------|--|----------|-----|-----------|------------|---|
|------------------------------------|--|----------|-----|-----------|------------|---|

- 1. Sodium symbol is, where nitrogen symbol is
- 2. The photosynthesis process changes energy into energy.
- 3. The positive pole in simple electric cell is, while the negative pole is
- 4. and are from examples of micro-organisms.

B Write the scientific term:

- 1. The energy level that has the highest energy.
- 2. Amount of energy needed or lost to transfer an electron from an energy level to another.
- 3. The measuring unit of density
- 4. It is a branch of biology that searches for the similarities and the differences among living organisms and it places the similar ones in groups according to a certain system.

Choose the odd word:

- 1. Wax Aluminium Butter Ice.
- 2. Acidic solution Sugar solution Salt solution Alkaline solution.

Question [4]

Rewrite the following statements after correcting the underlined words:

- 1. Protons are neutral charged particles.
- 2. The kinetic energy of an object increases by the increase of the weight and height.
- 3. An alloy of iron and cobalt is used in making jewels.
- 4. The transfer of heat in gases and liquids by conduction.

(B) The opposite figure represents the electronic configuration of an atom, complete:

- 1. The atomic number
- 2. The number of electrons
- 3. The mass number
- 4. The elements is considered (active inactive) gas.

Mention the type of adaptation of each of the following:

Birds migration.

Secreting poison in snake.



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North Giza Directorate

Answer the following questions:

Question 1

- Ocomplete the following statements:
 - 1. The nucleus of an atom contains and
 - 2. The front limbs in whale are modified into, while in bat are modified into
 - 3. Copper gold alloy is used in making, while nickel chrome alloy is used in making
 - 4. Heat transfers through solids by and through liquids by
- (B) What happens when ... ?
 - 1. Cold object touches hot object.
 - 2. An electron gains a quantum of energy.
 - 3. The mass number in an atom equals the atomic number.
 - 4. The ball of pendulum reaches to the maximum height. (concerning to K.E and P.E)
- What is meant by ...?
 - 1. Molecule.

2. Taxonomy

Question 2

- Mention one example for :
 - 1. Solution conducts electricity.
- 2. Renewable source of energy.

3. Fern plant.

- 4. Monoatomic element.
- (B) Correct the underlined words:
 - 1. Camel has hoof to walk in sand.
- 2. Coal is soft at room temperature.
- 3. Fish have external body support.
- 4. The intermolecular spaces are narrow among molecules of <u>liquids</u>.
- Write the symbols of the following elements:
 - 1. Mercury.

2. Sodium.

Question 3

- Mention one deference between :
 - 1. Hedgehog and sloth.
 - 3. Element and compound.

- 2. Gold and potassium.
- 4. Simple cell and solar cell.

المعاصر علوم لغات (Notebook) / ١ع / تيرم ١ (م: ١٨)

| B | Write | the | scien | tific | term | |
|---|--------|-----|--------|-------|------|--|
| | AALITE | me | 2CIGII | unc | term | |

- 1. The basic classification unit of living organisms.
- 2. Imaginary regions around the nucleus in which electrons revolve in it.
- 3. The temperature at which the matter changes from liquid state to gaseous state.
- 4. Mass of unit volume of substance.

O Solve the Problem:

Find the potential energy of an object its mass = 5 kg and found at a height of 4 meters from the ground. [$g = 10 \text{ m/s}^2$].

Question 4

- Give reasons for :
 - 1. Atom is electrically neutral.
 - 2. Spider belongs to arachnids while ant belongs to insects.
 - 3. Air conditioner is fixed at the top of a room.
 - 4. Iron sinks in water, while wood floats on water.

(B) Choose the correct answer:

- 1. The attraction force among molecules of gases is
 - a. strong.

b. weak.

- c. almost not existed.
- 2. Chemical energy is changed into heat energy in
 - a. car engine.

- b. dynamo.
- c. photosynthesis process.

- 3. Pea plant belongs to plants.
 - a. monocotyledon
- b. dicotyledon
- c. gymnosperm
- 4. The density of mass 8 gm of cork whose volume 16 cm³ is
 - a. 2 gm/cm³

- b. 5 gm/cm³.
- c. 0.5 gm/cm³

Write the electric configuration of the following:

1. ₁₂Mg

2. ₂₀Ca

11 Alexandria Governorate

Taymour English School

Answer the following questions:

Question [1]

- Write the scientific term :
 - 1. The spaces found among the molecules of matter.
 - 2. Energy is neither created nor destroyed but can change from one form to another.
 - 3. It is a behaviour through which some animals escape from high temperature in summer.

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- 4. Changing of kinetic energy to heat energy when two surfaces are touching each other. 5. Imaginary places around the nucleus and they are symbolized by K, L, M, N, O, P and Q. 6. Transferring of heat through vacuum. 7. Permanent and clean source of energy. (B) What is the type of species in the following ...? 1. Cycas and pine plant. 2. Jellyfish. @ Calculate the mass of a body whose density is 4.5 gm/cm³ and its volume is 3 cm³. Question Give reasons for: 1. The atom is electrically neutral. 2. It is preferred to put the heater on the ground. 3. We cannot put off petrol fires with water. 4. Some plants eat insects. B A ball of mass 0.25 kg is raised to a maximum point at a height 6 m. Calculate its potential energy and kinetic energy at : (Knowing that acceleration due to gravity $= 10 \text{ m/sec}^2$ b. 4 meters height. a. Maximum height. Correct the underlined words: 1. Boiling is the temperature at which liquids start to change into gases. 3. Scorpion is from myriapods. Hydrogen gas is a compound. 4. In dynamo, chemical energy is changed into electric energy. Question [3] Occupiete the following statements: 1. The energy level is filled with 32 electrons according to the rule 2. Heron has long and beaks to pick up 3. You are not doing a work when the displacement = 4. On heating a solid object, the intermolecular forces become
- 6. The hardness of is more than that of copper. B What happens if ...?

5. is the symbol for potassium.

- 1. You put 200 cm³ ethyl alcohol to 400 cm³ water (and why?).
- 2. The atom gained a quantum of energy.
- 3. The number of neutrons inside an atom is zero.



1. Draw its electronic configuration.

2. Name this element.

3. Find the number of its neutrons.

| (| Question [4] | | | | | | |
|---|--|--------------------|---------------------|---------------------|--|--|--|
| | Oross out the odd word and write the scientific term of the rest of the words: | | | | | | |
| | 1. Potassium – Copper | | 2. Mass - Velocity | | | | |
| | 3. Fish - Snail - Croco | | | | | | |
| B | Compare between (1 | point for each) : | | | | | |
| | 1. Salt solution and su | gary solution. | | | | | |
| | 2. Oil and oxygen (according to the motion of molecules). | | | | | | |
| | 3. Neutrons and electrons | ons. | 4. Armadillo and l | nedgehog. | | | |
| 0 | Choose the correct ar | iswer : | | | | | |
| | 1. Vougheir plant belong to | | | | | | |
| | a. plants that reproduce by formation of seeds. | | | | | | |
| | b. plants that are not distinguished into roots, stem or leaves. | | | | | | |
| | c. plants that reproduce by formation of spores. | | | | | | |
| | d. plants that are no | t gymnosperms. | | | | | |
| | 2. Television produces | | | | | | |
| | a. electric energy | | b. chemical energy | y | | | |
| | c. light and sound e | nergy | d. kinetic energy | | | | |
| | 3. The front limbs of d | lolphins are modif | fied into | | | | |
| | a. tails to swim. | | b. wings to fly. | | | | |
| | c. elongated limbs to | o swim. | d. paddles to swin | d. paddles to swim. | | | |
| | 4. The mathematical for | ormula used to ca | culate work is: | *** | | | |
| | a. force + displacem | nent. | b. potential energy | + kinetic energy. | | | |
| | c. weight + height. | | d. mass × velocity | | | | |
| | 5 is an inact | ive metal. | | | | | |
| | a. Gold | b. Iron | c, Aluminium | d, Carbon | | | |
| | 6 is a diator | nic liquid element | | | | | |
| | a. Iodine | b. Mercury | c. Water | d. Bromine | | | |

7. From the organisms that can make camouflage b. adiantum.

c, chameleon.

a. horse.

12 Alexandria Governorate

El-Montazah Directorate

Answer the following questions:

c. equal 1gm/cm3

| | 10-0 |
|----------|------|
| Question | U |

| K - William - Company | | | | |
|---|------------------------------|---------------------|--|--|
| Complete the following statements: | | | | |
| 1. Solar cell is used to change energy into energy. | | | | |
| 2. Cockroach has pairs of joint | ed legs while bee has | legs. | | |
| 3. Heat transfers through space by | while it transfers thro | ugh solids by | | |
| 4. Mercury molecule has atomo | | | | |
| 5. The symbol of magnesium is | | | | |
| B Cross the odd word out: | | | | |
| 1. Cow - Fish - Dolphin - Jellyfish. | | | | |
| 2. Ammonia - Table salt - Hydrogen chl | oride – Hydrogen. | | | |
| 3. Aluminium – Gold – Iron – Copper. | 4. Rat – Squirrel – J | erboa – Rabbit. | | |
| Question 2 | | | | |
| O Choose the correct answer: | | | | |
| 1. Some animals are called rodents such | as | | | |
| a. armadillo. b. hedgehog. | c. rabbit. | d. rat. | | |
| 2. Secretion of sweat in the human is | adaptation. | | | |
| a. structural b. behavioural | c. anatomical | d. functional | | |
| 3. The potential energy of an object at he | eight 8 meters is 800 j. the | weight of an object | | |
| is newton. | | | | |
| a. 60 b. 100 | c. 1600 | d. 200 | | |
| 4. As we go further from the nucleus the | energy level | d. reduces. | | |
| a. increases. b. decreases. | c. doesn't change. | | | |
| 5. The bird migrates from a co | ld region to a warm region | d geese | | |
| a. pigeon b. vulture | c. quail | d. geese | | |
| 6. When the substance sinks in the water | surface means its density | y 3 | | |
| a. Less than 1gm/cm? | b. more than 1gm/c | | | |

d. half density of water.

- B Mention one difference between:
 - 1. A very active metal and inactive metal. 2. Angiosperms and gymnosperms.
- A ball at height 4 m from the ground and its weight = 800 newton find:
 - 1. The kinetic energy at the maximum height.
 - 2. The potential energy at the maximum height.

Question 3

- O Correct the underlined words:
 - 1. The melting point of table salt is equal to the melting point of the wax.
 - 2. The N level is saturated with 8 electrons.
 - 3. Heat of the Sun is transferred to the Earth through space by conduction.
 - 4. The beak of the hawk is long and thin to pick up snails.
 - 5. From the insectivores plant pine.
 - 6. The relation needed to find the number of electrons in each energy level is $\underline{n^2}$.
- (B) Explain by drawing the electronic configuration of the following element

1. ²⁴/₁₂ Mg 2. ³⁶/₁₆Ar

Then explain the chemical activity of each element.

What is meant by the density of water = 1 gm/cm3 ...?

Question 4

- Write the scientific term :
 - 1. Mass of unit volume.
 - 2. The temperature at which the substance begins to change from liquid to gas.
 - 3. Amount of energy that gained or lost by the electron to transfer.
 - 4. Alloys are used to make jewels.
 - 5. Compound consists of two hydrogen atoms and one oxygen atom.
 - 6. A permanent source of energy.
- **B** Mention an example :
 - 1. A bird feeds on fish and mosses has a wide beak.
 - 2. A tool changes the electric energy into heat energy.
 - 3. A plant has no roots or stems or leaves.
 - 4. A solution allows the electric current to pass.
- Find the mass of a piece of iron its volume = 3 cm³ and the density of iron is 7.8 gm/cm³

13 Alexandria Governorate

El-Agamy Directorate

Answer the following questions:

Question 1



Ochoose the correct answer:

- 1. We can distinguished between according to the electric conductivity. b. copper and wood c. wood and plastic
 - a. copper and iron
- 2. The measuring unit of work done is
 - a. kilogram.
- b. newton.
- c. gm/cm³
- d. joule.

- 3. From teethless mammals
 - a. sloth.
- b. tiger.
- c. squirrel.
- d. hedgehog.

- 4. The diatomic liquid is
 - a. bromine.
- b. mercury.
- c. helium.
- d. nitrogen.
- 5. The number of electrons in the outer level of 17Cl is

b. 8

- c. 17
- d. 7

- 6. Cycas belongs to
 - a. algae.
- b. angiosperms.
- c. gymnosperms.
- d. ferns.

Give reasons for :

- 1. The volume of mixture of water and alcohol is less than the sum of them.
- 2. The camel's leg end with thick flat pad.
- 3. The heater is put near the bottom of room.
- 4. The atom is electrically neutral.

Question 2

Write the scientific term of the following:

- 1. Temperature at which liquid state starts to change into gaseous one.
- 2. Branch of biology that research the similarities and differences among living organisms and put similar in one group to ease their study.
- 3. Energy stored in an object due to work done. 4. The amount of energy which lost or gained by electron to transfer from energy level to another.
- 5. The ability of living organisms to hide from enemies by simulate the dominant natural conditions: conditions in their environment.

| (I) Give one example : | | | | | |
|--|--|---|------------------------|------|-----|
| 1. Myriapod. | 2. Permanen | t source of energy. | | | |
| 3. Inert gas. | 4. Ferns. | 5. Alloy used in | making cooking pots | • | |
| What is meant by? | | | | | |
| 1. Molecule. | | 2. Species. | | | |
| Question 3 | | | | | |
| Occupiete the following | ng: | X 25 | | | |
| When the body rise Insects belong to Front limbs of bat a | up its potentia and have te modified into sfer heat throug | t volume and its measurin Il energy and its ve pairs of jointe to to gh copper is whi | ed legs. | | ng |
| B Write the electronic | onfiguration o | of the following : | | | |
| 1. ₁₁ Na | 2. ₇ N | 3. ₂₀ Ca | 4. ₂ He | | |
| to gravity = 10 m/sg | ec^2) | potential energy at 2 m he | | n du | le |
| Question 4 | | | | | |
| Put () in front of co | orrect stateme | nt and (🗴) in front of wro | ong once : | | |
| 1 Secreting poison in | snake consider | red as structural adaptation | n. | (|) |
| 2 The symbol of sodi | um (S) and the | symbol of potassium (P). | | (|) |
| 3 The potential energ | y at maximum | height equal zero. | | (|) |
| 4. The charge of elect | rons is negative | e and protons is positive. | | (|) |
| 5. Pine plant and cyca | s from angiosp | perms. | | (|) |
| 6. Arachnids like spid | | ed legs. | | ľ | , |
| What happens when | 7 | | | | |
| 1. The electron gain a | mount of energ | gy. | | | |
| 2. Frogs can't make h | ibernation. | | | | |
| 3. The weight of object | ct is doubled at | constant height (accordin | g to potential energy) | | |
| 4. Heating an amount | of water (accor | ding to intermolecular space | e and intermolecular | forc | e). |

AL Qalyoubia Governorate

Science Inspectorate

Answer the following questions:

| Question | 1 |
|----------|---|

| 0 | Complete | the | following | statements | |
|---|----------|-----|-----------|------------|--|
| | | | | | |

- 1. alloy is used in making jewels, while alloy is used in making
- 2. The monoatomic liquid is, while the diatomic liquid is
- 3. In photosynthesis process, energy changes into energy.
- 4. Mussels are from animals that have support, while fish are from animals that

(B) Give an example of each of the following:

1. A very active metal.

2. A micro-organism.

A noble gas.

- 4. A substance that has low melting point.
- © A piece of marble, its mass is 100 gram is immersed in a measuring cylinder containing water, then water raised from 40 cm. to 60 cm. What is the density of the marble.

Question

Write the scientific term for each of the following:

- 1. The atom that gains a quantum of energy.
- 2. A set of similar animals in their shape and can reproduce to give new fertile individuals.
- 3. Energy is neither created nor destroyed, but it is converted from one form to another.
- 4. The result of the combination between two or more atoms of different elements with constant weight ratios.

B Correct the underlined word (s):

- 1. Transfer of heat by conduction doesn't need a material medium.
- Pea plant reproduces by formation of spores.
- 3. Sugary solution is a solution which is good conductor of electricity.
- Copper rod is the negative pole in the simple electric cell.
- A moving pendulum has a potential energy of 0.8 joule at maximum displacement. If the mass of its ball is 0.08 kg and acceleration due to gravity is 10 m/s? Calculate the height of the pendulum at maximum displacement.

| Question [3] | | | |
|--|---|------------------------------|----------------------------|
| Put sign (✓) or (୬) |) in front of each of the | following, then correc | ct the wrong one : |
| 1. Smell property | is a distinguishing factor | between perfume and a | ammonia. |
| 2. When air is coo | oled, its density decreases, | , so it falls down. | |
| 3. Angiosperms a | re called flowering plants. | | |
| to liquid state. | s the temperature at which | | om solid state |
| B Write the electro | nic configuration for eac | h of the following : | 10 |
| 1. Calcium ⁴⁰ ₂₀ Ca. | 2. Chlorine ³⁵ ₁₇ Cl. | 3. Nitrogen ¹⁴ N. | 4. Argon ⁴⁰ Ar. |
| Choose the odd v | word out, and give a reas | son for your choice : | |
| Ice – Wood – Cor | | | |
| Question 4 | | | |
| Ochoose the corre | ct answer from each of t | he following : | |
| 1. Which of the fo | ollowing devices pollutes | the environment? | |
| a. Gas oven. | b. Electric oven. | c. Electric heater. | d. Solar heater. |
| 2. Birds migration | ı represents adaj | ptation. | |
| a. structural | b. behavioural | c. functional | d. anatomical |
| 3. An example of | a living organism that und | dergoes hibernation is | |
| a. frog. | b. jerboa. | c. desert snail. | d. sloth. |
| 4. Equal masses of | of different substances hav | | |
| a. constant | b. equal | c. similar | d. different |
| B Compare between | n each of the following : | | |
| 1. Solids and gase | es (according to the attract | tion force). | |
| 2. Sodium and co | pper (according to the che | emical activity). | |
| Write the symbo | of each of the following |] : | |
| 1. Sulphur. | 2. Iron. | 3. Potassium. | 4. Helium. |
| 15 El Mer | ofia Governorate | Menouf D | irectorate |
| Answer the followin | g questions : | | |
| Question 1 | | | |
| | lowing statements : | | |
| 1. Density measu | ring unit isso de | | |
| | force × displacement is | | |

| | | | Final Examinations |
|--|---|-------------------------|--------------------------------|
| 3. The symbol of s | odium is whil | e the symbol of pot | assium is |
| 4 and | are teethless ma | mmals. | assium is |
| Write the number | which indicates the fo | llowing: | |
| | nergy levels in the larg | | |
| Potential energy distance of the h | = kinetic energy = eight between the top a | mechanical e | nergy (in the middle |
| 3. An object of mas | ss 2 kg moves with a sp | eed of 4 m/s has a k | inetic energyjoule |
| 4. The smallest ato | mic number of an elem rgy levels in ordinary s | ent which its electro | ons rotating around the |
| © Give a reason for | | | |
| Some table salt dis | appears after a while w | hen added to water | without stirring |
| Question 2 | | | |
| O Choose the correc | t answer : | | |
| 1. If the nucleus of | carbon atom contains 6 | protons and 6 neutr | ons, so the atomic number |
| equal i | n the stable state. | r | ons, so the atomic number |
| a. 12 | b. 6 | c. 8 | d. 16 |
| 2 is the o | lensity of 35 gm of a su | bstance that occupie | s 25 cm ³ |
| a. 14 gm/cm ³ . | b. 1.4 gm/cm ³ | c. 4 gm/cm ³ | d. 1 gm/cm ³ |
| | | | cinetic energy and vice versa. |
| a. car battery | | cell c. simple pendul | |

| B | Put | (~) | or | (w) | |
|---|-----|--------------|----|-----|--|
| | | | 0. | | |

a. Vougheir

1. Hedgehog has front teeth extending outwards. 2. Substances have different chemical properties.

c. Cycas

d. Wheat

4. is an example of the plants which feed on insects.

b. Dieonea

- 3. Atomic number is the number of neutrons in nucleus.
- 4. Microorganisms spread out every where around us in air, soil and water.

Compare between :

Transfer of heat by conduction and radiation (concerning the medium that transfer through it).

Question 3

Mention the scientific term :

- 1. It is a branch of biology searching the similarities and differences among living organisms.
- 2. Energy is neither created nor destroyed but it is converted from one form to another.

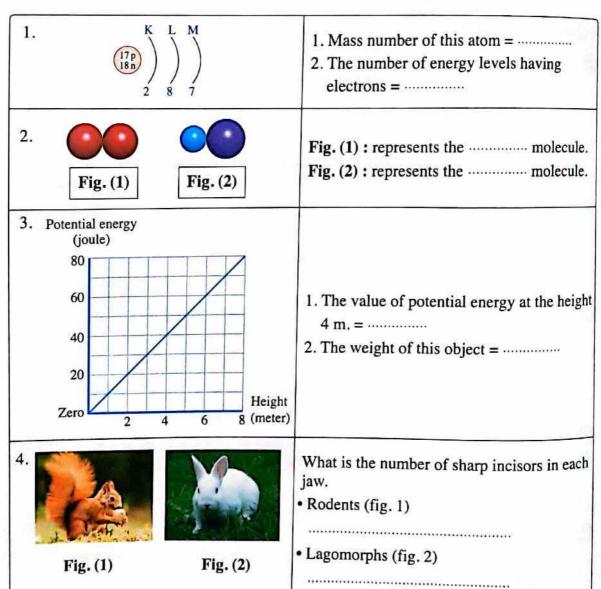
- 3. It is the temperature at which matter begins to change from a liquid state to a gaseous state.
- 4. The smallest particle of the matter that can share in chemical reactions.
- (II) Choose odd word out:
 - 1. Solar cell Dynamo Dry cell Motor. 2. Sun Coal Petrol Natural gas.
 - Water Oil Alcohol Water vapour.
- $4._{1}H _{8}O _{17}Cl _{18}Ar$
- Give one difference between :

Insects and arachnids.

Question [4]



Study these figures well then determine each of the following:



| Choose the correct work (carbon – copper – radia – convection only). 1. Density of 12 gm from 2 | n pure iron t nductor matter for hea | tructural – equals – in the density of 2 gm from the and electricity. | |
|--|--|--|--|
| What happen when Dipping two different m | | wire in an acidic solut | ion. |
| | Governorate | Science Inspe | |
| Answer the following que | stions : | | |
| Question 1 | | | |
| Ocmplete the followin | a statements : | | |
| 1. Ammonia molecule | | and four | |
| 2. The outer energy lev | el inS contains | electrons but in | N electrons. |
| 3. In solar cells the | energy is direct | converted into | energy. |
| 4. Micro-organisms dif | | | |
| (B) Choose the correct an | | | |
| 1. Number of electrons | | N equal | |
| a. 2n | b. n ² | c. 2n ² | $d. (2n)^2$ |
| 2. Substance finds grea | at difficulty to react wi | th oxygen like | •••• |
| a. Na | b. K | c. Fe | d. Au |
| 3. When pulling a strir | | one to pull it is stored | in |
| a, kinetic energy. | b. chemical energy. | | d. potential energy. |
| 4. Pea plant belongs to | plant. | | |
| a ferns | b. monocotyledon | c. dicotyledon | d. gymnosperm |
| On determining iron | density using a piece o the water level rises u | of iron of mass 78 gm up to 110 cm.³ Calcula | n, the piece is immersed te iron density. |
| Question 2 | | | |
| Write the scientific to | erm : | | |
| 1. The temperature at a gaseous state. | which a substance beg | gins to change from a | liquid state into |
| 2. The simplest pure | form of a substance, w | e could not decompos | se it chemically into |
| a simpler substance | | 15 T AND TO SHOW THE TO SHOW THE SHOW T | |
| SAME TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE | E CAST | | |

- 3. Cell is composed of an acid solution with two different metals dipped in.
- 4. The ability of some body organs and tissue to do certain functions.

(B) Correct the underlined words:

- 1. An element the outer energy level (N) contains one electron and its mass number is 39, so its nucleus contains 18 neutrons.
- 2. On adding 200 cm³ from ethyl alcohol to 300 cm³ of water in a measuring cylinder, the volume of the mixture equals 500 cm³.
- 3. The organs of birds that are adapted for feeding are the wings and eyes.
- 4. Halophila digest the insects to absorb the nitrogenous substances to form carbohydrates.
- A ball was launched upwards and vertically at a speed 6 m/s up to height 8 m calculate
 the mechanical energy of the ball if its weight is 10 newton and its mass 0.5 kg.

Question [3]

- (1) Choose the odd word out, then write the scientific name of the rest:
 - 1. Electron Quantum Proton Neutron.
 - 2. Ice Coin -Wood Oil .
 - 3. Water motion Food Nuclear reaction Electric energy.
 - 4. Gas oven Coal heater Petrol stove Solar oven.

B Put (√) or (x):

- 1. Water is not used in extinguishing petrol fires.
- 2. The energy of level O is smaller than that of level M.
- 3. Heat transferred through aluminium pots by convection. (
- 4. Energy is neither created nor destroyed but it cannot be transformed into another form.

(What is the result based on the following:

The variety of the ways of motion in mammals.

Question 4

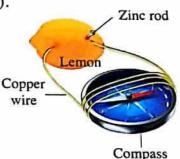
Answer according to that in the brackets :

- 20Ca / 2He / 18Ar [Arrange the element ascendingly according to the number of energy levels].
- From the figure :
 (Mention the modification in the front limbs and why ?).





- Sugar solution / salt solution / sulphur / alkaline solution (classify the substances according to their electric conductivity).
- From the opposite figure :
 (What is the scientific idea).



- Find the mistakes in the following sentences. Then correct them by copying the whole correct sentence in your answer sheet:
 - 1. Silver element has symbol Si.
 - 2. If an atom loses a quantum of energy the electron transfers from L to N level.
 - 3. African, Asian and Egyptian human belong to different species.
 - 4. Scorpion has five pairs of jointed legs.
- (Give a reason for :

Some animals undergo hibernation.

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East Tanta Directorate

Answer the following questions:

Question 1

- Complete the following statements :
 - 1. The liquid element which consists of one atom is, while that consists of two atoms is
 - 2. The electrons of the potassium atom (19K) are distributed in energy levels and the outermost energy level contains electron(s).
 - 3. As doubling the height to which an object is raised from the ground, the potential energy increases to
 - 4. Vertebrates have support, while mussels have support.
 - 5. Heat is transferred throught iron by
- B Choose the odd word out, then write the scientific term of others :
 - 1. Solar oven Solar heater Solar battery Solar stove.
 - 2. Ammonia Water Aluminium Hydrogen chloride.
 - 3. Nuclear weapons Car exhaust Chemical pesticides Solar cells.
 - 4. Nitrogen Argon Helium Neon.

| Ment | tion one | life | application | on | |
|------|----------|------|-------------|----|--|
|------|----------|------|-------------|----|--|

1. Density.

2. Electric conduction.

Question 2

Write the scientific term of the following:

- 1. The ability of somebody's organs and tissues to do certain functions.
- 2. Energy is neither created nor destroyed, but it is converted from one form to another.
- 3. The space that is found among the molecules of matter.
- 4. The atom that gains a quantum of energy.

(B) Give an example for each of the following:

1. Ferns.

2. Alloy that is used in making jewels.

3. Lagomorphs.

4. A compound molecule consists of four atoms.

© Calculate the potential energy of an object its weight is 32 newton and its height is 4 meters.

Question 3

Put (✓) or (x) then correct the wrong one:

| 1. The mass number is always smaller than the atomic number. | S . |
|--|------------|
| 2. Cool air falls down, but hot air rises up | (|
| | |

3. Iron rusts when it is exposed to dry air.

4. Drosera, halophila, and dieonea are heterotrophic insectivorous plants. (

B Choose the correct answer:

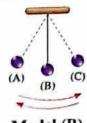


Model (A)

1. Model (A) represents

(ammonia - hydrogen chloride - carbon dioxide - water)

2. The number of elements of the model (A) is (1-2-3-4)



 If you know that the mechanical energy = 800 joule and kinetic energy = 650 joule at rest position, the potential energy =ioule.

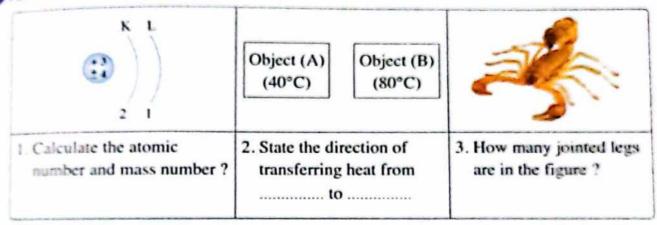
Model (B) (zero – 150 – 800 – 1450)

What happens when ...?

- 1. Mating between an african man and an asian woman.
- 2. Chameleon goes from green area to sandy area.

| | - |
|----------|---|
| Question | |

- Correct the underlined words:
 - 1. The proton of the atom is negatively charged.
 - Genus is the basic unit of classification of living organisms.
 - 3. Amoeba is an example of multi-cellular organisms.
 - 4. The molecules of a compound consisting of similar atoms.
- Answer the following questions :



What do you expect ... ?

The beaks of hoopoe and hawk are mutually exchanged.

Behira Governorate

Science inspectorate

Answer the following questions:

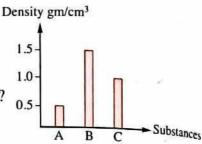
Question



- Complete the following statements:
 - 1. The energy level (M) saturated by electrons, which an be calculated from the relation

 - 3. is the ability to do work and its measuring unit is
 - adapted by
- Write one example for each of the following:
 - Transfer heat by convection.
- An alloy used in making jewels.
- Soft substance at room temperature.
- Device used to change electric energy into light energy.

- The opposite graph represents the density of substances (A, B and C), study the graph then Answer the following:
 - 1. Which material sinks in water? And why?
 - 2. Calculate the volume of 100 gm sample of material (A)?



Question

- $lacktrel{lack}$ Choose the correct answer :
 - 1. In solar heater, the solar energy is converted into
 - a. light.
- b. electric.
- c. heat.
- d. kinetic.
- 2. The electrons of potassium atom (19K) are distributed in energy level(s).

- a. one
- b. two
- c. three
- d. four

- 3. The symbol of sulphur element is
 - a. (Ag)
- b. (S)
- c. (Si)
- d. (Hg)
- 4. The plant which reproduce by spores is
 - a. pine.
- b. bean.
- c. vougheir.
- d. wheat.
- Write the number which indicates each of the following:
 - 1. Number of neutrons in nucleus ²⁴₁₂Mg atom.
 - 2. Number of electron in outermost energy level of ⁴⁰₂₀Ca atom.
 - 3. Number of jointed legs of ant.
 - 4. Number of incisors in lower jaw of rodents
- A ball was kicked up vertically to reach 15 meters high before returning back. If the weight of the ball is 10 newton, calculate its kinetic energy at :
 - 1. The highest point.

The ground.

Question

- Write the scientific term of the following:
 - 1. The basic classification unit for living organisms.
 - 2. The temperature at which a solid substance starts to change into a liquid one.
 - 3. The smallest particle that can share in the chemical reaction.
 - 4. The way be which heat is transferred through solid.
- B Choose a phrase from column (B) which match another from column (A):

| (A) | (B) |
|--|---|
| 3. Element molecule 4. In the simple electric cell | a. zinc rod is consider the negative pole. b. a molecule which is formed of similar atoms. c. change chemical energy into kinetic energy. d. change potential energy into kinetic energy and vice versa. e. the number of positive protons in the nucleus of an atom. |

| (| Give one difference between |
|---|---------------------------------|
| | Maize plant and pine plant. |
| | Question 4 |
| 1 | Choose the odd word, then v |
| • | 1 Ammonia – Water – Alumi |
| | 2. Solar stove - Solar heater - |

- write the scientific term of the other:
 - nium Hydrogen chloride.

:

- Solar cell Solar oven.
- 3. Octopus Spider Jellyfish Earthworm.
- 4. Acidic solution Sugary solution Salt solution Alkaline solution.
- (B) Correct the underlined words:
 - 1. The nucleus has neutral charge.
 - 2. The intermolecular forces between gaseous molecules is strong.
 - 3. The networks of wireless transmitters of cellular phones cause chemical pollution.
 - 4. The ends of horse are modified into thick flat pad to run on rocky soil.
- @ Give a reason for : Some animals undergo hibernation.

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|---------------------|------------------|
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Answer the following questions:

| Question | 1 | |
|----------|---|--|
|----------|---|--|

- O Complete the following statements:
 - 1. The liquid element its molecule is composed of one atom is, while that is composed of two atoms is
 - 2. In the dynamo, energy changes into energy.
 - 3. The cockroach belongs to, whereas the scorpion belongs to
 - 4. Silver symbol is whereas sodium symbol is
- B Choose from column (B) what suits it in column (A):

| (A) | (B) |
|---|---|
| Heat transfers through liquids by Electric lamp From inert gases The atom that gains a quantum of energy | a. excited atom. b. helium. c. convection and radiation. d. is a source of light energy. e. is a source of electric energy. f. convection. |

1, 2. When a piece of iron its mass 156 gm, is put in a graduated cylinder containing 100 cm³ of water the reading becomes 120 cm³ calculate the density of iron.

Question 2

O Choose the correct answer:

- 1. The number of energy levels in the heaviest atom is
 - a. 8

b. 7

- c. 32
- d. 18
- 2. Distance among molecules are very small in
 - a. water.
- b. copper.
- c. hydrogen.
- d. oil.
- 3. An object of 20 N weight and it is placed at a height of 5 m, so its potential energy isjoule.
 - a. 50
- b. 150
- c. 100
- d. 200
- 4. is from the animals that make hibernation in winter.
 - a. Frog
- b. Jerboa
- c. Desert snail
- d. Sloth

(B) What happen if ...?

- 1. Using water in putting out petrol fires.
- 2. The electron gains a quantum of energy.
- 3. If the front limbs of the bat are not modified into wings.
- 4. The front teeth of hedgehog are not extending outwards.

From the opposite figure answer the following questions:

- 1. Mention the name of the opposite device.
- 2. Label the fig.
- 3. Mention the idea of operation.

(2) (1)

Question [3]

Write the scientific term :

- 1. Number of positive protons in nucleus of the atom.
- 2. The plants which devour insects to get protein.
- 3. The way of transferring the heat through solids.
- 4. An alloy which is used in making heating coils.

(B) Correct the underlined words:

- 1. The networks of cellular phone cause noise pollution.
- 2. Work = force \times time.

- 3. Gold is very active metal.
- 4. Boiling point is the temperature at which matter changes from solid into liquid state.
- Your classmate has seen a bird, he doesn't know this bird's name but he managed to: Describe it as a bird with a sharp beak and the legs end in fingers with strong claws. According to your classmate story, answer the following questions:

1. What is the type of adaptation in both the beak and leg of this bird? 2. How many fingers are in each leg? 3. What type of food does this bird feed on? Question [4] Give one difference between each of the following: 1. Beans and wheat. 2. Neutron and proton. 3. Element and compound. 4. Mechanical energy and heat energy. B Give one example showing each of the following: 1. Micro-organisms. 2. A solution that is good conductor of electricity. 3. Alloy used in making the jewelry industry. 4. Soft material at normal temperature. (Give reasons for : 1. Some animals undergo hibernation. 2. Camel's legs end with broad pad. Minia Governorate St. Mark Schools Answer the following questions: Question 1 A Choose the correct answer: 1. The attraction force is very weak in a. iron. b. milk. d. oil. c. oxygen. 2. Chemical energy can be stored in a. radio. b. car battery. c. car lamp. d. piano. 3. The fourth energy level in calcium 20Ca is filled with electrons. c. 2 4. An object of mass 4 kg is moving at a speed of 8 m/sec has a kinetic energy equal joule. a. 120 d. 190 c. 130 b. 128 5. The plant that reproduces by spores is d. maize. a. pine. c. vougheir. b. bean. 6. All of following solutions conduct electricity except solutions. c. alkaline d. sugary a. salt b. acidic

3. Sodium.

B Write the symbol of the following:

2. Iron.

1. Sulphur.

4. Aluminium.

| Give reasons for the follow | ving : | | | | |
|--|-----------------------------------|--------------------------|--|--|--|
| 1. The atom is electrically n | eutral. | 2. A piece of wood f | loats on water surface. | | |
| 3. Hedgehogs have front teeth extending outwards. | | | | | |
| 4. The freezer is found at the | e top of the fridge | | | | |
| Question 2 | | | | | |
| Write the scientific term o | f each of the follo | owing : | | | |
| The product results from weight ratios. | combination of a | toms of different elen | nents with constant | | |
| 2. The sum of numbers of p | protons and neutro | ons in the nucleus of a | n atom. | | |
| 3. The way by which the he | eat is transferred th | hrough copper or met | allic wires. | | |
| The behaviour that some rise in temperature in sur | | ding in humid burrow | s to avoid the extreme | | |
| 5. It is the ability to do wor | rk or to make a cha | ange. | | | |
| 6. The branch of biology that | at searches for simil | larities and differences | among living organisms. | | |
| Write the electronic confi | guration of the fo | ollowing : | | | |
| 1. 23 Na 2. | ⁴⁰ Аг | 3. ¹⁴ N | 4. ⁷ Li | | |
| Mention one difference b | etween : | | | | |
| 1. Insects and arachnids. | | 2. Rodents and lago | omorphs. | | |
| Question 3 | | | | | |
| Give an example for each | of the following | : | | | |
| 1. An alloy that is used in | making jewels. | 2. A very active me | tal. | | |
| 3. A liquid element compo | sed of one atom. | - 10 Feb (1985) | | | |
| 4. An animal which doesn't | t have any suppor | t. | | | |
| Hibernation in amphibia | an. | 6. A micro-organism | n. | | |
| (B) Mention the changes of e | nergy in the follo | | | | |
| 1. Solar cell. | 2. Electric he | eater. | 3. Simple electric cell. | | |
| 4. Radio cassette. | 5. Dynamo. | | and the second s | | |
| Question 4 | | | | | |
| Complete the following s | tatements: | | | | |
| Matter is composed of s composed of smaller un | small building uni sits called | ts called, w | hile these units are | | |
| Noble gases have eight has electrons. | electrons in the or | utermost energy level | except which | | |
| 158 | | | | | |

| | Final Examinations |
|---|---|
| 3. Heat is transferred through gases by 4 belong to teeth | less mammals. |
| | |
| Problem: When a piece of red copper of mass 44 gm of water, the reading of the cylinder become | n. is put in a graduated cylinder containing 100 cm ³ nes 105 cm ³ calculate the density of red copper. |
| Choose the odd word out, then write so | cientific term of the others : |
| 1. Ice – Wood – Iron – Cork. | Dieonia – Drosera – Elodea – Halophila. |
| 3. Bean – Corn – Pine – Wheat. | 4. Lion – Tiger – Sloth – Wolf. |
| 21 Sohag Governorate | El-Manahel Private Language School |
| Answer the following questions : | |
| Question 1 | |
| Ocomplete the following sentences: | |
| 1. Some solutions are good conductors o | f electricity such as while some |
| solutions are bad conductors of electric | composed of one atom is while |
| 2. The liquid element whose molecule is the liquid element whose molecule is | composed of one atom is while |
| 3 Heat transfer by radiation takes place | through medium and medium. |
| 4. The legs of the horse end in to help it w | to help it run on rocky soil while the legs of |
| 5. The energy level "K" is saturated with | electrons while energy level "N" is |
| saturated with electrons. | |
| B Give reasons for : | |
| 1. The motion of the children's swing is | like that of the pendulum. |
| 2. Metallic spare parts of cars are covere | d with grease. |
| Calculate the density of a piece of met | al its mass is 78 gm and its volume is 10 cm. ³ |
| Question 2 | |

O Choose the correct answer:

a. Iron

1. is from substances that float on the surface of the water.

b. Cork

c. Copper

CS CamScanner

d. Aluminium

| 3. The potential energy | gy of an object equals | | | | | |
|--|--|--|---------------------|-------|---|--|
| a. on reaching the ground.c. when its velocity increases. | | b. when it reaches the maximum height.d. when its velocity decreases. | | | | |
| 4. The electric energy change into kinetic energy | | | y decreases. | | | |
| a. electric lamp. | b. cell phone. | c. electric fan. | d. electric bell. | | | |
| 5, from gyn a. Wheat | | nest 💌 Yeartheon Lake Fran | ı D' | | | |
| | b. Maize | c. Vougheir | d. Pine | | | |
| a. hedgehog. | end outward in | | 1 - 111 | | | |
| | b. sloth. | c. tiger. | d. rabbit. | | | |
| Mention one import | ance (use) of each of | the following: | | | | |
| 1. Nickel-chrome allo | oy. | 2. Sharp beaks in | predators. | | | |
| 3. Paddles in whale. | | 4. Solar cells. | | | | |
| Compare between : | | | | | | |
| Oxygen molecule | and neon molecule (ad | ccording to : the numb | per of atoms). | | | |
| Mosquito and scor | rpion (according to : th | ne number of legs). | | | | |
| Question 3 | | | | | | |
| Write the scientific | term : | | | | | |
| 1. Element that react | s instantly with oxyge | n when expose to hun | nid air. | | | |
| 2. A molecule of a co | Element that reacts instantly with oxygen when expose to humid air. A molecule of a compound composed of two hydrogen atoms and an oxygen atom. | | | | | |
| | 3. The result of multiplying displacement × force. | | | | | |
| | 4. It is a form of energy which transfers from a higher temperature object to a lower | | | | | |
| It is the behaviour the extreme rise in | through which anima temperature in summ | ls stop their most vita ner. | l activity to avoid | | | |
| (B) Mention one examp | le of each of the foll | owing : | | | | |
| 1. A substance with a | a low melting point. | 2. Insectivorous p | lant | | | |
| 3. A renewable source | e of energy. | 4. Camouflage in | | | | |
| A stone of 5 kg in menergies at the star | nass falls from a heig t of falling. (accelera | ht of 8 m. calculate t | he notential and ki | netic | C | |
| Question 4 | | | | | | |
| Put (✓) or (): | | | | | | |
| 1. The intermolecula | ar forces between solic | d molecules is non evi | stent | (|) | |
| 2. The rule (2n ²) is n | not applied on the ener | rgy level "M" | otent. | (|) | |
| | on in snakes is behavio | | | (|) | |
| Paris | | and adaptation. | | (| 1 | |
| 160 | | | | | | |

| | | | — Final Examir | atio | ns |
|---|---|---------------------|-----------------------|------|----|
| The solid moThe temperat | om micro-organisms. lecules vibrate in a simp ure of bodies increases | | eed. | (| |
| What is meant 1. Element. | by ? | 2. The conserv | ration law of energy. | | |
| Write the elect | ronic configuration of : 2. ₇ N | 3. ₁₈ Ar | 4. ₂₀ Ca | | |
| 22 Qen | a Governorate | Science | e Inspectorate | | |
| Callann | lna amestians i | | | | |

Answer the following questions:

| Question |
|----------|
|----------|

- O Complete the following sentences:
 - 1. The melting point is the temperature at which matter begins to change from astate to a state.
 - Hydrogen molecule is composed of atom(s), while argon molecule is composed of atom(s).
 - Potential energy increases by increasing the of the body and its from the ground.
 - 4. The whale front limbs are modified into to take the role of
- Complete the following table :

| W Treat | Number of neutrons | Electronic configuration | |
|------------------------------|--------------------|--------------------------|--|
| 7 ₃ Li | (1) | (2) | |
| ⁴ ₂ Mg | (3) | (4) | |

What is meant by ... ? Heat energy.

Question 2

- Write the scientific term:
 - The result of combination between two or more atoms of different elements with constant weight ratios.
 - The number of positive protons in the nucleus of atom.
 - 3. The way by which heat is transferred from the Sun to the Earth.
 - The behaviour that some animals do by hiding in burrows to avoid the low temperature in winter.

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| 2. Sugar solution – Acid | | | on. | | |
|--|--|--|------------------------|--------------|---|
| 3. Oxygen – Ammonia | | | | | |
| 4. Dieonea – Drosera – | | | autically unward | | |
| Someone kicked a ball a height of 4 m, its speenergy at 4 m height. | of mass 0.5 kg and eed was 10 m/sec, ca | weight is 5 newton v Ilculate the potential | energy and the l | at kineti | c |
| Question 3 | | | | | |
| O Choose the correct an | swer: | | | | |
| 1. The attraction force | and the same of th | | J -1 | named) | |
| a. strong. | b. weak. | c. moderate. | d. almost not fo | ouna. | |
| Electric energy is contained as electric lamp. | b. electric fan. | c. electric bell. | d. electric heat | er. | |
| a. Wheat | nple of plants that repr b. Vougheir | roduce by spores. c. Pine | d. Maize | | |
| 4 bird migra a. Quail | ates in the winter. b. Hawk | c. Duck | d. Eagle | | |
| (I) Correct the underline | ed words : | | | | |
| 1. The energy level "I | K" has the highest end | ergy in the atom. | | | |
| 2. Insectivorous plant | s cannot absorb the ni | trogenous substances t | hat make fats . | | |
| 3. Mercury is diatom | <u>ic</u> element. | | | | |
| 4. Heat transfers through | ugh liquids by conduc | ction. | | | |
| Give a reason for the | e following : | | | | |
| A piece of wood float | s on water surface wh | ile a piece of lead sink | s in it. | | |
| Question 4 | | | | | |
| Put (✓) in front of t | he right statement a | nd (🗴) in front of the | wrong ones : | | |
| | vhile hot air falls dow | | | (|) |
| | ave palm legs to help | | | (|) |
| | e substance are differe | | | (|) |
| Human belongs to | one species although | he differs in color or r | ace or home. | (|) |
| Write the chemical: | symbols of the follow | ving : | | | |
| 1. Sodium. | 2. Iron. | 3. Sulphur. | 4. Silver. | | |
| Compare between i | nsects and arachnids | , (According to the nur | mber of legs). | | |
| 162 | | | | | |

 ${\color{red} {\bf IB}}$ Cross out the odd word then write scientific term for the other words :

1. Lion – Dogs – Tiger – Armadillo.

| Ī | - |
|---|---------|
| ١ | |
| ı | F 150 1 |
| ŧ | |

Aswan Governorate

ALMostagbal Language School

| Answer | the | following | questi | ons | : |
|--------|-----|-----------|--------|-----|---|
|--------|-----|-----------|--------|-----|---|

| Question | 1 |
|----------|---|
| | |

| Complete | the | following | statements |
|----------|-----|-----------|------------|
|----------|-----|-----------|------------|

- 1. An alloy of is used in making jewels while an alloy of is used in making heaters coils.
- 2. The liquid element whose molecule is composed of one atom is while that composed of two atoms is
- 3. Some plants have large-sized leaves such as and some has small-sized leaves such as
- 4. and are examples for insectivorous.

Mention the change of energy in the following:

| Technological | Change | of energy |
|------------------|--------|-----------|
| applications | from | to |
| 1. Electric fan | | |
| 2. Electric lamp | | |
| 3. Electric bell | | |
| 4. Solar heater | | |

| | - | | | | | |
|---|----|---|----|----|---|--|
| | - | | | - | | |
| | n. | | h | 01 | ~ | |
| 0 | r | U | וט | | | |

Find the weight of an object of potential energy 88 joule when found at a height 11 m.

Question

| | Chanca | tho | correct | answer | : |
|---|--------|-----|---------|--------|---|
| W | Choose | tne | Collect | answei | • |

- 1. are from the animals which don't have a body support.
 - a. Reptiles
- b. Snails
- c. Jellyfish
- d. Cartilaginous fish

- 2. Heat is transferred through solids by
 - a. conduction and convection.
- b. radiation only.
- d. conduction only. c. radiation and convection.
- 3. As an object falls downwards a. the potential energy increases.
- b. the kinetic energy increases.
- c. the mechanical energy is lost.
- d. the speed of the object decreases.
- 4. The taste property is a distinguishing factor between
 - a. milk and honey.

b. wood and plastic.

c. silver and gold.

d. perfume and vinegar.

| Write the symbol | s of the following eler | nents : | | | |
|--|-----------------------------------|-----------------------------------|---------------------|-----------|----|
| 1. Sodium. | 2. Nitrogen. | 3. Aluminium. | 4. Phosphoru | ıs. | |
| Give a reason for | 1 | | | | |
| | | water, it disappears after | ratime. | | |
| Question [3] | | | | | |
| Write the scienti | fic term of each of the | following: | | | |
| | | on of atoms of different | elements with cor | nstant | |
| Energy needed | l or lost to transfer an e | lectron from an energy l | level to another. | | |
| A form of ener lower tempera | | from the object of high | er temperature to | that of | |
| 4. The temperatu | re at which a substance | changes from the liquid | d state to the gase | ous state | e. |
| Write the electron | onic configuration of t | he following elements | : | | |
| 1. 4He | 2. ²⁴ ₁₂ Mg | 3. ⁴⁰ ₁₈ Ar | 4. 32S | | |
| What do you ex | pect in each of the fol | lowing cases ? | 2.5 | | |
| | oopoe and a hawk are r | | | | |
| Question [4] | | | | | |
| Put (√) or (x) | in front of the followin | ng sentences : | | | |
| | | different from each oth | er. | (|) |
| 2. The molecule | s of solid substances vi | brate in a simple vibrate | ory motion. | (|) |
| | up, but hot air falls do | | - | (|) |
| The motion of | of gaseous molecules is | limited. | | (|) |
| State one diffe | rence between each o | f the following : | | | |
| 1. A rabbit and | a squirrel. | 2. Beans plant a | nd wheat plant. | | |
| (9) What is meant | by the following ? | | | | |
| Mechanical end | ergy of an object is 100 | joule. | | | |
| 24 South | n Sinai Governora | ite El-Tur | Directorate | | |
| Answer the follow | ing questions : | | | | |
| Question | | | | | |
| Write scientifi | c term : | | | | |
| 1. The smalles | t part of matter which c | an exist freely. | | | |
| | be distinguished into re | | | | |

- 3. Metals used for painting iron to protect it from rusting.
- 4. Energy is neither created nor destroyed, but it is converted from one form to another.
- (i) Give an example of each the following:
 - 1. A compound molecule that consists of two atoms.
 - 2. Mammal animal have teeth extending outwards.
 - 3. Permanent resource of energy.
 - 4. Functional adaptation.
- ② An atom of element have number of electrons in the third level equal the number of electrons that have in the first energy level:
 - 1. Write the electronic configuration.
- 2. Determine its atomic number.

Question 2

- O Complete the following:
 - 1. The symbol of mercury, while (Au) is the symbol of

 - 3. The number of atoms in bromine molecule is while the number of atoms in water molecule is
 - 4. and are examples of insects adapted by camouflage.
- (B) Compare between:
 - 1. Rodents and lagomorphs (according to the number of teeth examples).
 - Solid objects and gaseous objects (according to the way of heat transfer the motion of molecules).
- A metallic ball has mass 3 kg. was thrown up to reach height 7 meter, calculate the potential energy of the ball at maximum height. "the acceleration due to gravity = 10 m/sec²".

Question 3

- O Correct the underlined words:
 - 1. Heat transfers by conduction doesn't need for a material medium.
 - 2. Mass is the ability to do work.
 - 3. Horse limbs end by sharp claws to help the horse run on the rocky soil.
 - 4. From solutions that are bad conductor of electricity table salt solution.
- (I) Mention one importance for each of the following:
 - 1. Nickel-chrome alloy.

Palm legs of ducks.

3. Solar cells.

4. Hibernation.

| What is meant by ? | | |
|--|--|--|
| 1. The density of Iron = 7.8 gm/cm^3 . | 2. The kinetic energy | of a body = 90 joule. |
| Question 4 | | |
| What happens when ? | | |
| 1. The atom gains a quantum of energy. | | |
| 2. The beak of hawks and vulture are long an | d thin. | |
| 3. Putting the electric heater on the ground. | The same as a second of the sa | putting out petrol fires. |
| (II) Choose the correct answer: | | |
| 1 is from gymnospmers plants. | | |
| a. Bean b. Pine | c. Pea | d. Maize |
| 2. Electromagnetic pollution is resulted from | | |
| a. the network of cellular phone. | b. drilling machines. | |
| c. pesticides. | d. the explosions. | |
| 3. Scientist who used the species as a fundam | nental unit of natural c | lassifying system |
| is a. Newton. b. Planck. | c. Linnaeus. | d. Einstein. |
| | | XT(6) (*********************************** |
| Putting of nut fastener its temperature 90° the temperature of water becomes | | temperature 50 C, |
| a. 90°C. b. 120°C. | c. 50°C. | d. 30°C. |
| Write the mathematical relationship used | to calculate the follov | ving : |
| 1. The work. | 2. The number of ne | |
| 25 New Valley Governorate | El-Kharga Di | irectorate |
| Answer the following questions: | | |
| Question 1 | | |
| Complete the following statements: | | |
| The liquid element its molecule is compo composed of two atoms is | sed of one atom is | , while that is |
| 2. On the Earth's surface, potential energy of kinetic energy equals the energy | | als while its |
| 3. The networks of wireless transmitters of | | pollution, but |
| car exhaust cause pollution. 4. Heat transfer from liquids by | while through space by | |
| 5 is from the plants that reproduc | | |
| is from the plants that reproduce by form | | |

| Mention one use or function | tion one use or functio | n | n |
|-----------------------------|-------------------------|---|---|
|-----------------------------|-------------------------|---|---|

1. Nickel-chrome alloy.

- 2. The sharp and crooked beaks in hawk.
- (i) A ball was launched upward and vertically at speed 3 m/sec up to a height 4 m, calculate the mechanical energy of the ball if its weight is 5 newton and has a mass of 0.5 kg.

Question 2

(1) Choose the correct answer:

- 1. A piece of lead of mass 114 gm occupies 10 cm³, its density is gm/cm³.
 - a. 14

- b. 124
- c. 11.4
- d. 1
- 2. A substance is solid and can't be soften by heating
 - a. copper.
- b. wood.
- c. aluminium.
- d. iron.
- 3. An element has 2 electrons in the (M) level, so its atomic number is
 - a. 8

b. 10

c. 12

- d. 14
- 4. Secreting sweat by skin is considered adaptation.
 - a. structural
- b. functional
- c. behavioural
- d. anatomical

- 5. From animals with internal support is
 - a. octopus.
- b. fish.
- c. snail.
- d. jellyfish.

- 6. Chemical energy can be stored in
 - a. car lamp.
- b. car battery.
- c. stretched spring.
- d. pendulum.

- 7. Scorpion belongs to
 - a. insects.
- b. arachnids.
- c. myriapods.
- d. mammals.
- 8. In solar heater, solar energy is converted into energy.
 - a. light
- b. electric
- c. heat
- d. sound

B Give a reason for:

Water isn't used to put out petrol fires.

Write the symbol of each of the following:

- 1. Silver.
- 2. Chlorine.
- 3. Lead.
- 4. Sodium.

Question 3

Mrite the scientific term:

- 1. The branch of biology that searches for the similarities and differences among living organisms.
- 2. A fundamental building unit of matter which can share in the chemical reaction.
- 3. It is the amount of energy lost or gained by an electron when it transfers from one energy level to another.
- 4. The way of transferring heat through solids.

- 5. The plants which devour insects to get protein.
- 6. The work done during the motion of an object.
- 7. It is a form of energy which transfers from a higher temperature object to lower temperature object.
- 8. The gases that don't take part in the chemical reaction.
- (B) What happens when ...?

Iron nail moisten by water is exposed to air for several days.

- Mention one example :
 - 1. A teethless animal.

2. A permanent source of energy.

Question

- What is meant by ...?
 - 1. Law of energy conservation.
- 2. Camouflage.
- B Mention one difference between:

| 1. Water molecule | Nitrogen molecule |
|-----------------------------------|-------------------------------|
| 2. Squirrel | Rabbit |
| | |
| 3. Intermolecular force in solids | Intermolecular force in gases |

Write the electronic configuration of :

1. 24 Mg

 $2._{10}^{20}$ Ne

Then determine each of the following:

1. Number of neutrons.

2. Chemical activity.

| | 1. ²⁴ ₁₂ Mg | 2. 20 Ne |
|-------------------------|-----------------------------------|----------|
| 1. Number of neutrons : | | |
| 2. Chemical activity : | | |



Final Examinations of some Governorates.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة

1 Cairo Governorate

St. Joseph's Language School

Answer the following questions:

Question

D

(A) Complete the following statements:

- 1. In solar cell energy changes into energy.
- 2. The monoatomic liquid is, while is diatomic liquid.
- 3. The symbol of sodium is, while that of gold is
- 4. Heat transfers through solids by, while through liquids by
- **B** Mention one difference between:
 - 1. The electron and the proton.
- 2. Insects and arachnids.

Problem:

An object whose mass is 2 kg is moving at a speed of 5 m/sec. Calculate its kinetic energy.

Question

2

⚠ Put (✓) or (🗷) :

- 1. An alloy of nickel chrome is used in making heating coils.
- 2. Birds migration is an example of structural adaptation.
- 3. Pine plant is from an angiosperms plants.
- 4. The energy level (N) is saturated by 32 electrons.
- 5. The ammonia molecule consists of one nitrogen atom and three hydrogen atoms. (
- B Write the electronic configuration of :

6. Sugary solution is a good conductor of electricity.

1. 35Cl

 $2._{10}^{20}$ Ne

 $3._{8}^{16}O$

@ Problem :

A piece of iron, whose mass is 78 gm is placed in a measuring cylinder containing 40 cm³ of water so water rises up to 50 cm³. Calculate the density of iron.

Ouestion

3

M Give reasons for :

- 1. The freezer is placed at the top of the fridge.
- 2. Inert gases are chemically inactive elements.
- 3. The atom is electrically neutral.
- 4. Some animals hibernate in winter.

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مذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والعمولية

B Choose the correct answer:

- 1. The attraction forces among solid molecules are
 - a. strong.

b. weak.

- c. almost not found.
- 2. The front limbs of whale are modified into
 - a. legs.

b. wings.

- c. paddles.
- 3. Kinetic energy is changed in electric energy in
 - a. motor.

b. dynamo.

c. simple cell.

- 4. is from micro-organisms.
 - a. Drosera

b. Euglena

c. Scolopendra

Define:

- 1. Melting point.
- 2. Potential energy.

Question

Write the scientific term:

- 1. The ability to do work or to make a change.
- 2. The smallest building unit of matter which can exist freely.
- 3. The number of protons inside the nucleus.
- 4. The ability of some animals to change their colour to stimulate the environment.

B Give an example for :

- 1. Very active metal.
- 2. Dicotyledon plant.
- 3. A rodent animal.
- 4. A solid substance which is soft at room temperature.

What happens when ...?

- 1. You add 50 cm3 of ethyl alcohol to 100 cm3 of water.
- 2. The electron gains a quantum of energy.

Cairo Governorate

Holy Family School

Answer the following questions:

Question



Give one example for :

- 1. A substance that has low melting point.
- 2. A plant isn't distinguished into roots, leaves or stems.
- 3. A bird feeds on fish.
- 4. A solution that is good conductor of electricity.

المعاصر علوم لغات (Notebook) / ١ع/تيرم ١ (م: ١٥)





| P.O.C. | Insect | Arachnid | |
|--------------------------|----------------------------------|----------|--|
| Example: | ******************************** | | |
| Number of jointed legs : | pairs | pairs | |



Question

Write the scientific term:

- 1. The basic classification unit of the living organisms.
- 2. The sum of potential energy and kinetic energy.
- The spaces among molecules.
- 4. Gases that their molecules are composed of one atom only.
- Change of matter from solid state into liquid state.

B Correct the underlined words:

- Ammonia molecule is composed of three atom(s).
- 2. Insectivorous plants absorb nitrogen to form fats.
- Celebration balloons are filled with hydrogen or oxygen gases.
- 4. The rule (2n²) is used to fill the energy levels with **protons**.
- Friction generates (produces) light energy.

Redraw the table then complete it:

| P.O.C | Energy used | Energy produced |
|-----------------|-------------|-----------------|
| Photosynthesis: | | |
| Dry cell : | | |

Question

Cross out the odd word:

- 1. Vougheir Bean Pea Wheat.
- 2. $_{11}Na _{19}K _{12}Mg _{3}Li$
- Wood Cork Ice Nail
- 4. Evaporation Hibernation Aestivation Birds migration.

B Answer the following:

In the following atom $\binom{27}{13}$ Al).

| 1. Draw the electronic configuration. | *************************************** |
|---------------------------------------|--|
| 2. The atomic number = | *************************************** |
| 3. The mass number = | 3227445542747444444444444444444444444444 |
| 4. Number of neutrons = |)************************************** |

What happens when ... ? Hot object touches a cold object.

PART

Cairo Governorate

Al-Farouk Islamic Language School

Answer the following questions:

Question



Write the scientific term for each of the following:

- 1. Ability to do work or cause change.
- The total number of protons and neutrons inside the nucleus.
- Animal that is considered an example for structural, functional and behavioural adaptations.
- The smallest unit of matter construction which reacts chemically.

B Choose the correct answer:

- 1. Heat transfers by radiation through
 - a. liquids only.

- b. gases only.
- c. material media and non-material ones.
- d. metals only.
- 2. From animals with internal support
 - a. octopus.
- b. fish.
- c. snail.
- d. jellyfish.

- 3. Silver is symbolized by
 - a. Hg
- b. S

c. Si

d. Ag

- 4. Chemical energy can be stored in
 - a. car battery.

b. stretched spring.

c. raising a load upwards.

- d. car lamps.
- 5. is an example for plants that reproduce by spores.

 - a. Pine
- b. Bean
- c. Vougheir
- d. Wheat
- 6. An object of mass 2 kg is moving at a speed of 4 m/s, has kinetic energy
 - a. 16 J.
- b. 64 J.
- c. 32 J.
- d. 128 J.

Copy the following table at your answer sheet, then complete it:

| Technological applications | Resource of energy Permanent/Non-renewable | Effect on environment Polluted/Non-polluted | |
|----------------------------|---|--|--|
| 1. Coal fire | | | |
| 2. Petroleum car engine | *************************************** | Canada Ca | |
| 3. Gas stove | *************************************** | | |
| 4. Solar heater | | | |

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخ

- D Cross out the unsuitable word, then write the relation between the other words:
 - 1. Bean Pea Maize Pine Wheat.
 - 2. Petroleum Wood Cork Iron.
 - 3. Locust Mosquito Spider Cockroach Fly.

Question



- Complete the following statements:
 - 1. The front limbs of whale are modified into to help it to
 - 2. When a body is raised up, the potential energy, while the kinetic energy
 - 3. and are examples for insectivorous plants.
- B Solve the following problem (Write all laws and measuring units used):

In an experiment to determine a liquid density, the following results are recorded:

- The mass of an empty cylinder = 65 gm.
- The mass of the cylinder containing liquid = 155 gm.
- The volume of the liquid measured by a graduated cylinder = 100 cm³. Calculate liquid density.
- C "Each modification is for specific function" In a table, write the function of each of the following:
 - 1. Front teeth of hedgehog.
- 2. Wide indented beak of duck.

3. Pads of camel.

- 4. Beaks of hawks.
- D What happens in each of the following cases ... ?
 - 1. Leaving a piece of iron exposed to moist air for a period of time.
 - 2. Friction of the bicycle wheels to a rough surface.
 - When energy of an electron becomes larger than the energy of the level in which it rotates by an amount of energy equals a quantum.
 - 4. A ball is raised upwards, then it is left to fall downwards.

Question



- M Give reasons for each of the following:
 - 1. Atom is electrically neutral.
 - 2. Individuals of the same species have different characters.
 - 3. The heater is placed on the ground.
 - 4. Some species of birds migrate from their original habitats in winter.



B Copy the following table at your answer sheet, then complete it:

| Points of comparison | Ice | Water | Water vapour |
|------------------------------|-------------------|---|---|
| 1. Keeping shape and volume: | | *************************************** | ************************************** |
| 2. Intermolecular force: | ***************** | | *************************************** |

Rewrite the underlined words in following sentences after correcting:

- 1. Neutrons are positively charged.
- 2. Fuel energy is considered from the clean energy resources.
- 3. Bean plant is considered from monocotyledons.
- 4. Oxygen gas is an inert gas that couldn't share in chemical reactions at normal conditions.

(B) What suits from (A):

| (A) | (B) |
|--|------------------------------------|
| 1. Density measuring unit | a. conduction. |
| 2. Travelling of solar heat to the Earth | b. cm ³ |
| 3. Substances conduct heat and electricity | c. radiation. |
| 4. Factors affecting kinetic energy of an object | d. copper and iron. |
| 5. Volume measuring unit | e. gm. |
| 6. Simple cell is an example for energy transformation | f. gm/cm ³ |
| | g. wood and plastic. |
| | h. object's weight and its height. |
| | i. from chemical to electric. |
| | j. object's mass and its speed. |
| | k. from electric to chemical. |
| | 1. cm ² . |

Question

- A Give an example showing each of the following:
 - 1. Vertebrate animal.
 - 2. Teethless mammals.
 - 3. Animal makes hibernation.
 - 4. Camouflage in insects.
 - 5. Animal makes aestivation.

(B) Copy the following table at your answer sheet, then complete it:

| T71 | Electronic configuration | | | | |
|--------------------------------|---|---|------------|---|--|
| Element | K | L | M | N | |
| 23 11Na | *************************************** | *************************************** | MANAGEMENT | | |
| ²⁴ ₁₂ Mg | ************* | | | *************************************** | |

Solve the following problem:

Find the potential energy of an object its mass is 5 kg when found at height 10 m from ground, consider gravity acceleration = 10 m/s².

The figures below represent the electronic configuration of atoms of some elements:

| (±8)) | (±12))) | (±17) (±18) |
|------------|-----------|----------------|
| 2 6 (A) | (B) 2 8 2 | (C) 2 8 7 |

Study these figures well, then determine each of the following:

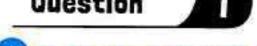
| Find | Atom (A) | Atom (B) | Atom (C) | |
|-----------------------------|----------|------------|----------|--|
| Atomic number of each atom: | American | | | |
| Mass number of each atom: | | ********** | | |

Cairo Governorate

Al-Waha Language School

Answer the following questions:

Question



- Write the scientific term:
 - 1. Negatively charged particles of negligible mass revolve around the nucleus.
 - 2. Organisms that can't be seen by the naked eye and they spread in air, water and soil.
 - 3. The way by which the heat is transferred through gases and liquids.
 - 4. The behaviour that frogs and toads do in the winter to avoid the low temperature.
 - 5. The ability of some living organisms to be hidden from their enemies.
 - 6. The mass of unit volume of the substance.
 - 7. The gases which their molecules consist of one atom.
 - 8. A group of animals that have one pair of incisors in each jaw.
 - 9. Energy is neither created nor destroyed, but it is converted from one form to another.



كتباب المعاصر

موقع والكروني التعليمي

الصف الاول الاعدادي

| Scorpion and armadillo are insects. | (|) |
|--|---|---|
| 5. The temperature of particles decreases when their movement increases. | (|) |
| 6. Hot water is lighter than the cold water. | (|) |

Write the symbols of the following elements:

7. Reptiles have an external support.

- 1. Calcium. 2. Aluminium. 3. Nitrogen. 4. Phosphorus. 5. Silver. 6. Hydrogen.
- If the density of alcohol is 0.8 gm/cm³, find the volume if its mass is 88 gram.

Question

- Ocrrect the underlined words:
 - 1. Oxygen molecule consists of three atoms.
 - 2. The molecule of a compound consists of similar atoms.
 - 3. Number of protons = Mass number Atomic number.

B Mention the changes of energy in the following:

| Examples | Energy used | Energy produced |
|--------------------|-------------|-----------------|
| 1. Solar heater: | | |
| 2. Photosynthesis: | | |

- State a difference between each of the following:
 - 1. A rabbit and a squirrel.
 - 2. Pea plant and wheat plant.
 - 3. The camel's pad and the horse's hoof.
- D Write the electronic configuration of the following elements and mention the type of each one (active or inactive):
 - a. ⁷Li

- b. 24Mg
- c. 39K
- b. 20Ne

Cairo Governorate

Gaber El-Ansary Language School

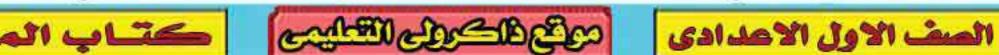
Answer the following questions:

Question

- Complete the following:
 - 1. Density is the of unit volume of the matter and its unit is
 - 2. Hydrogen molecule consists of atoms, while argon molecule consists of atoms.

المعاصر علوم لغات (Notebook) / ١ع/تيرم ١ (م: ١٦)







Cairo Governorate

East Nasr City Educational Directorate Science Inspection

Answer the following questions:

Question



(A) Complete the following statements:

- 1. and belong to teethless mammals.
 - 2. The measuring unit of mass is, while is the measuring unit of volume.
 - 3. and are examples of insectivorous plants.
 - 4. Matter consists of small building units called, which consist of smaller building units called
 - 5. Potential energy = ×

B Problem:

When a piece of iron of mass 78 gm is put in a graduated cylinder containing 100 cm³ of water, the reading of the cylinder becomes 110 cm3. Calculate the density of iron.

Give an example for each of the following:

- 1. A device changes kinetic energy into electric energy.
- 2. Plants reproduce by spores.

Question



Write the scientific term for each of the following:

- 1. The simplest state of matter which can't be decomposed into a simpler one by chemical methods.
- 2. It is the amount of energy lost or gained by an electron when it transfers from one energy level to another.
- The ability to do work or to make change.
- 4. The temperature at which matter changes from liquid state to gaseous state.
- 5. The ability of some living organisms to simulate the dominant environmental conditions to be hidden from their enemies or even to capture the preys.

B Compare between each of the following:

- 1. Insects and arachnids. According to the (number of legs)
- 2. Bean plant and maize plant.
- 3. Solid and gas. (Concerning attraction force among molecules)

Write the electronic configuration of the following elements:

1. 16S

2.7N

3. 20Ca

| B Mention the energy transf | | The second secon | | | |
|--|--|--|--------------------------|------|----|
| 1. Electric bell. 2. S | Simple cell. | 3. Electric h | eater. | | |
| Cross out the unsuitable w | ord for each in | the following | | | |
| Petroleum – Wood – Cor | k – Iron. | 2. Reptiles - | - Fishes - Birds - Worms | | |
| 3. Sodium – Copper – Alun | ninium – Iron. | 4. Bee – Spi | ider – Fly – Ant. | | |
| Giza Governo | rate | Lycée El-Ho | aram Language Schools | | > |
| Answer the following question | ns: | | | | |
| Question | | | | | |
| Put (✓) or (ӿ) and correct | t the wrong on | es: | | | |
| 1. The distance between the | | | y. | (|) |
| 2. The mass number is the a | A STATE OF THE PARTY OF THE PAR | TO PERSONAL PROPERTY AND ADMINISTRATION OF THE PERSONAL PROPERTY A | MC II. | (2.9 | ·* |
| from an energy level to a | nother. | | | (|) |
| 3. The chemical symbol of | the sodium eler | nent is (Sa). | | -(|) |
| 4. Kinetic energy is a work | done during a r | notion of an obj | ject. | (|) |
| 5. Heat transfers by convec- | tion in liquids o | only. | | (|) |
| 6. Arachnids have 4 pairs of | - Special Control Special Control Control | THE RESERVE OF THE RESERVE OF THE PERSON OF | | (|) |
| 7. The bean plant is an exar | nple of dicotyle | don plants. | | (|) |
| B What is meant by the follo | wing ? | | | | |
| 1. The temperature. | 2. The | mass number. | | | |
| 3. Structural adaptation. | 4. Heat | transfers by rac | diation. | | |
| Write the symbols of the f | ollowing eleme | ents : | | | |
| 1. Sodium. | 2. Gold | i. | 3. Iron. | | |
| Question 2 | | | | | |
| | 1: | | | | |
| 1. As an object is launched | upwards | **** | | | |
| a. its speed decreases. | | b. its speed i | increases. | | |
| c. its kinetic energy incre | ases. | d. its potenti | al energy decreases. | | |
| 2. The 3 rd energy level in th | e atom contains | s elect | rons. | | |
| a. 2 b. 1 | 8 | c. 8 | d. 32 | | |
| 3. All the element are active | but i | s not active. | | | |
| a. 1H b. 6 | С | c. 7N | d. ₁₈ Ar | | |

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلود



| | 777 | and the same of th | 33.43 | | fastan | Laterrane | |
|---|------------|--|---------|-----------|--------|-----------|--|
| 4 | The colour | property is | a disti | nguisning | Tactor | Detween | |

a. flour and table salt.

- b. iron and gold.
- c. oxygen and carbon dioxide.
- d. no correct answer.
- 5. Particles which are negatively charged and negligible mass are
 - a. protons.
- b. neutrons.
- c. electrons.
- d. photons.
- 6. Electric energy is converted into kinetic energy in
 - a. electric lamp.
- b. cellular phone.
- c. electric fan.
- d. battery.

- 7. Insects have of jointed legs.
 - a. 3 pairs
- b. 4 pairs
- c. 2 pairs
- d. 44 pairs

(B) Choose a phrase from column (A), what suits it in column (B):

| (A) | (B) | | |
|--|--|--|--|
| 1. Total number of protons and neutrons is | a. are examples of small terrestrial plants. | | |
| Substances are good electric and heat conductors such as | b. example of animal that undergo aestivation. | | |
| 3. Vougheir and adiantum | c. iron and aluminium. | | |
| 4. Jerboa is | d. mass number. | | |

Compare between solid, liquid and gas regarding to : Attraction forces.

Question

3

O Complete each of the following:

- 1. Alloy of used in making jewels.
- 2. The density is the of unit volume of a substance, its unit is
- The liquid element its molecule composed of one atom is, while that composed of two atoms is
- 4. The electrons revolve around the nucleus in orbits known as
- 5. Electric cables are made up of or
- 7. Paddles of whales and dolphins are for

B Give reasons for :

- 1. The atom is electrically neutral.
- The camel pad ends in a thick flat.
- 3. The inert gases do not react chemically with other element.
- Write the electronic configuration of the following atoms and indicate the number of electron in the outermost level and the number of neutrons.
 - 1. 27A1
- 2. 35CI

Question

Write the scientific term:

- 1. Is a group of similar living organisms in shape that can reproduce to give birth of new fertile individuals.
- 2. Is the smallest individual unit of matter which can share in chemical reactions.
- 3. The ability of some living organisms to be hidden from their enemies or to capture the preys in the predatory species.
- Energy stored in an object due to work done on it.
- 5. Molecule is composed of three atoms: 2 hydrogen and 1 oxygen.
- 6. It is the temperature at which a substance changes from a liquid state into geseous state.
- 7. Energy is neither created nor destroyed, but it can be transformed into another form.

B) Calculated:

- 1. The density of an object if: mass = 500 gm and volume = 200 cm³.
- 2. A ball was launched upwards at a speed 5 m/s up to height 6 m. Calculate the mechanical energy of the ball if its weight is 40 N and has a mass 5 kg.

The migration is a type of adaptation for the some birds:

- 1. Why some species of birds are adapted to the migration?
- 2. What is the type of this adaptation?

Giza Governorate

Talaee Islamic Language School

Answer the following questions:

Question

A Choose the correct answer:

- 1. is from rodents that undergo aestivation.
 - a. Rat
- b. Squirrle
- c. Jerboa
- d. Desert snail
- 2. The colour property is a distinguishing factor between
 - a. table salt and flour.

b. iron and gold.

c. oxygen and nitrogen.

- d. oxygen and carbon dioxide.
- 3. An object potential energy is zero, when the object is at the
 - a. maximum height.

- b. Earth's surface.
- c. when mass object increases.
- d. when the object speed increases.
- 4. insect exactly looks like the plant branches.
 - a. Stick
- b. Beetle
- c. Leaf
- d. Locust







B Give reason for the following:

- 1. It is favorable to produce electricity from solar energy than fuel burning.
- 2. Water is not used to extinguish petrol fires.
- 3. The atom is electrically neutral.
- 4. The front limbs in the dolphin are different from the bat's ones although they are structured with similar bones.
- Compare between bean plant and corn plant.

Question

Complete the following statements:

- is the basic unit of classification in living organisms.
- energy is changed into electric energy in the battery.
- take the shape of the container but have definite shape.
- 5. The liquid element which is composed of one atom is, while that composed of two atoms is
- B Write the electronic configuration for the following elements:

 $\binom{27}{13}$ Al $- \binom{16}{8}$ O) then calculate the number of neutrons.

What is meant by quantum?

Question

A) Write the scientific term :

- 1. The transfer of heat through solid objects from part to another.
- 2. The work done during motion of the body.
- 3. The spaces found among the molecules of a substance.
- 4. The ability of some living organisms to stimulate the dominant environmental conditions to be hidden from their enemies or even to capture the preys.
- 5. The smallest particle of the matter can exist freely and has the properties of its substances.
- B) What is meant by melting point?
- Find the weight of an object of potential energy 88 joules, when found at height 11 metre.

ا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخر الصف الاول الاحدادي صحيحاكيكي التعليمي العمالية الاحدادي

Question

- Correct the underlined words :
 - Distance among solids molecules is very large.
 - 2. The substances that can conduct heat and electricity are wood and plastic.
 - The coal is a permanent source of energy.
 - 4. Camphor tree is an example of insectivorous plant.
- B Choose the odd words out then mention the relation between the rest:
 - Mosquito Spider Cockroach Ant.
 - Snake Jellyfish Shark Frog.
 - $3._{6}C _{10}Ne _{9}F _{7}N$
- What is meant by the density of aluminium is 2.7 gm/cm³?

Giza Governorate

Pyramids Language School

Answer the following questions:

Question



- Write the scientific term:
 - 1. The mass of unit volume of matter.
 - 2. The sum of the protons and neutrons in the nucleus of an atom.
 - 3. The sum of the potential and kinetic energies of the body.
 - 4. Energy is neither created nor destroyed, but it is converted from one form to another.
- B Mention one use for :
 - 1. Copper-gold alloy.

2. Simple cell.

Problem:

The mass of an empty beaker = 75 gm where the mass of the beaker filled with liquid = 153 gm while the volume of the liquid = 100 cm³. Find the density of the liquid.

Question

- Complete the following :
 - 1. The molecule of water consists of two atoms and one atom.
 - 2. From very active metals and
 - 3. Kinetic energy = $\frac{1}{2} \times \dots \times \dots \times \dots$
 - 4. From the animals that have soft body and

المعاصر علوم لغات (Notebook) / اع/تيرم ١ (م: ١٧)





1. Unicellular micro-organisms.

2. Insectivorous plants.

10 Giza Governorate

Science Inspectorate

Answer the following questions:

Question



- Write the scientific term:
 - 1. Energy stored in the object due to work done on it.
 - 2. It is the temperature at which matter begins to change from solid state to liquid state.
 - 3. The ability of some living organisms to hidden from their enemies.
 - 4. A way of heat transfer through solids.
- B Write the symbols of the following elements:
 - 1. Calcium.
- 2. Silver.
- 3. Zinc.
- 4. Potassium.
- What's the density of copper if the mass of a piece of it is 44 gm and it occupies a space of 4 cm³.

Question



- Give reasons for :
 - 1. The atom is electrically neutral.
- 2. Cooking pots have handles made up of wood.
- 3. Spider is not from insects.
- 4. The bike tire gets hot once you press the brakes.
- **®** Mention the energy transformation in each of the following:
 - 1. Electric heater.

- 2. Simple pendulum.
- Write the electric configuration of the following:
 - 1. 24Mg

2. 40₂₀Ca

3. 16C

Question



- Calculate the kinetic energy of an object it's mass (12 kg) when it moves at a speed 20 m/s.
- **B** Complete the following:
 - 1. Measuring unit of volume is and that of mass is
 - 2. The charge of protons is, while that of electrons is
 - 3. Weight = ×
 - 4. is an example for plants that reproduce by spores.
- What happens when ...?
 - 1. Metallic spare parts of cars are not covered with grease.
 - 2. Open a bottle of perfume for a period of time.

| Ougation | |
|----------|--|
| Question | |
| | |

Write the scientific term:

- 1. A group of living organisms mostly similar to each other in their shape and produce new fertile members.
- 2. Imaginary places in which electrons can move according to their energies.
- 3. The simplest form of matter which can not be decomposed into simpler one.
- 4. It is the main source for the most energy resources on the Earth.
- 5. The pollution produced from the webs of wireless transmitters of cellular phones.
- 6. Plants that can't be distinguished into roots, stems and leaves.

B Give reasons for each of the following:

- 1. The freezer is found at the top of the fridge.
- 2. The fuel inside the car is similar to the food inside the body of the living organism.
- 3. The atom is electrically neutral.
- When a piece of iron mass 78 gm is put in a graduated cylinder containing 100 cm³ of water, the water increases up to 110 cm³. Calculate the iron density.

Question

- Put (✓) or (x) in the front of each sentences and correct the wrong ones:
 - 1. The attraction forces among molecules of solids are very weak.
 - 2. Sloth and armadillo are edentates mammals.
 - 3. In solar cells the solar energy is converted into heat energy.
 - 4. Spiders are arthropods that have three pairs of jointed legs.
- Complete the following table by suitable completion:

| Device | Type of energy resource | | |
|---------------------------|---|--|--|
| 1. Solar heater : | | | |
| 2. Electric water heater: | *************************************** | | |
| 3. Gas stove : | | | |

- Write down the electric configuration of the following atoms:
 - $1._{16}^{32}$ S

 $2._{10}^{20}N$

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

Question

4

| 4 | | - | | | |
|---|--------|-----|---------|-----------|---|
| | hooco | Tho | COFFOR | SPACIALOS | 9 |
| | ヨレひひろと | SHE | Consect | answer | |

| | | | 117 |
|---|-------------------------|--------------------|--|
| Some elements which | 1 | | and a series of the control of the c |
| L. Some elements which | nas a oreat difficility | v to react with o | axvoen is |
| 1. Donie Cicinenta winer | i mus a great amireun | , co reduce with t | JAJ SOM TO |

- a. potassium.
- b. sodium.
- c. aluminium.
- d. platinum.
- 2. Electric energy is converted into kinetic energy in
 - a. electric lamp.
- b. cellular phone.
- c. electric fan.
- d. electric bell.
- 3. In doubling the height of an object from the ground, its
 - a. kinetic energy is increased to its double value.
 - b. potential energy is increased to 3 times.
 - c. mechanical energy is increased 4 times.
 - potential energy is increased to its double value.
- 4. The scorpion belongs to
 - a. arachnids.
- b. myriapods.
- c. mammals.
- d. insects.

- 5. In the filament of electric lamp the
 - a. light energy is converted into mechanical energy.
 - b. chemical energy is converted into light energy.
 - c. electric energy is converted into heat energy.
 - d. electric energy is converted into mechanical energy.
- 6. Heating coils are made up of alloy.
 - a. iron-copper
- b. nickel-iron
- c. nickel-chrome
- d. chrome-copper
- 7. An object of 20 newton weight and it is placed at a height of 5 m, so its potential energy is joules.
 - a. 50
- b. 150
- c. 100
- d. 200
- 8. All of the following elements are inactive elements except
 - a. ₂He
- b. 15P
- c. 18Ar
- d. 10Ne

B Give example showing each of the following:

- 1. An animal with a soft body.
- 2. A monocotyledon plant.

3. A myriapod animal.

What is the mathematical relationship that binds between each of the following:

- 1. Weight of an object and its mass.
- Mechanical energy of an object and its potential energy.
- 3. Potential energy, weight and height.

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة

12 Alexandria Governorate

Middle Educational Zone

Answer the following questions:

Question

O Complete the following statements:

- 1. The mass of the atom is concentrated in the
- 2. The protons have charges.
- 3. Heat transfers from the Sun to the Earth by
- 4. From the examples of huge trees is
- 5. The gymnosperms plants as pine produces seeds inside
- 6. Arachnids have pairs of jointed legs.

B Mention one example for:

- 1. A permanent source of energy.
- 2. An amphibian undergoes hibernation.

3. Lagomorphs.

4. Camouflage in insects.

Compare between the following:

- 1. Mercury and bromine concerning the molecule structure.
- 2. The car engine and the car cassette concerning the energy produced.

Question

2

O Correct the underlined words:

- 1. Liquids have a fixed shape.
- 2. The relation (2n²) is not applied to energy level higher than 5th level.
- 3. In solar cell the solar energy is changed into magnetic one.
- 4. In simple cell the positive pole is a rode of zinc.
- 5. Secreting poison in snakes is considered as a behavioural adaptation.
- 6. Insectivorous plants catch and pounce insects to get starch.

B Cross out the odd word, then mention the common property between the rest :

- 1. Butter Ice Iron Wax.
- 2. Armadillo Lion Tiger Wolf.

Give reasons for the following:

- 1. Electrician use a screwdriver made up of steel iron with woody handle.
- 2. Heater is placed on the ground, while the air conditioner is put at high position in the room.
- 3. The shallow water birds have long and thin beaks.

- 5. Plants can't be distinguished into roots, stems and leaves.
- 6. The basic classification unit for living organisms.

| B | What | hapi | oens | in | the | fol | lowing | cases | and | why | ı | ? |
|---|---------|------|-------|----|------|-----|--------|-------|-----|-------|---|---|
| | AALICAL | | JC113 | | LIIC | | owning | CUSCS | unu | ***** | | |

- 1. If water is used to put out the petrol fires.
- 2. If you put a drop of potassium permanganate in a jar containing water.
- 3. Rubbing your hands together.
- O A racing bike moves with a speed of 20 m/s. Calculate its kinetic energy knowing that the mass of the bike is 8 kg.

Alexandria Governorate

El-Agamy Educational Zone

Answer the following questions:

Question



Choose the correct answer :

- 1. The amount of energy gained or lost by the electron is called
 - a. joule.
- b. quantum.
- c. neutron.
- d. proton.

- reproduces by spores.
 - a. Vougheir
- b. Pine
- c. Bean
- d. Wheat
- 3. The fourth energy level is saturated by electrons.
 - a. 32
- b. 18
- c. 8

d. 2

- 4. When air heats up its density
 - a. still constant.
- b. increases.
- c. decreases.
- d. (b) and (c).

B Write the electronic configuration for :

- 1. 24 Mg
- 3. 40 Ar

Question

A Put (√) or (x) in the following statements:

1. The positive pole in a simple cell is lead.

2. Heat transferred through solids by conduction.

Jewels are made up of copper-gold alloy.

4. All inert gases are monoatomic.

- B What happens when ...?
 - 1. Coil the wire of a simple cell around a compass.

5. Mass number is the sum of protons and electrons numbers.

2. Putting of a drop of ink in water.

المعاصر علوم لغات (Notebook) / ١ ع / تيرم ١ (م: ١٨)

خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى



| 4. Metallic bridge | s are painted from time | e to time to protect them from |
|----------------------------------|--------------------------|---|
| 5. When an electro | on transfers from an er | nergy level near the nucleus to a higher one, it |
| a qua | ntum of energy and the | e atom becomes atom. |
| The molecule o | f hydrogen chloride co | onsists of one atom of, and one atom |
| of | | |
| | | ece of iron of mass 78 gm, the piece is immersed up to 110 cm ³ . Calculate the density of iron. |
| Question 2 | | |
| Write the scientif | fic term : | |
| 1. Plants that can' | t be distinguished into | roots, stems and leaves. |
| 2. Energy neither | be created nor destroy | ed. |
| 3. The type of ada | ptation when birds mi | grate from one place to another. |
| 4. The sum of the | numbers of protons ar | nd neutrons inside the nucleus of the atom. |
| B What are the diff | erences between ? | |
| 1. Hydrogen and l | accepted) | |
| 2. Bat and whale | (According to the adap | otation of the front limbs). |
| Write down the e | electronic configuration | on and the type of the following elements : |
| 1. ⁷ Li | 2. 20 Ne | |
| Question 3 |) n | |
| Choose the corre | ct answer : | |
| | | changed into energy. |
| a. magnetic | b. electric | c. mechanical |
| 2. The electron is | charged part | icle. |
| a. positively | b. negatively | c. neutrally |
| 3. The number of | pairs of scorpion legs | is |
| a. 4 | b. 3 | c. 44 |
| 4. An object of we | ight 6 newtons, moved t | to a height 5 m, its potential energy is joules. |
| a. 30 | b. 75 | c. 11 |
| B Give reasons for | | |
| 1. Some birds hav | e long thin beaks and | long thin legs. |
| 2. Wood floats on | the surface of water. | |
| 3. Cooking pots a | re made of aluminium | , while their handles are made of wood. |

- 35/1 Then calculate the atomic number – the mass number – the number of protons – the number of neutrons – the number of electrons – the number of energy levels having electrons – the number of electrons in the outermost energy level. Determine if the atom is active or inactive and mention the reason.

| CL CL | | 440 | | |
|-------|-------|-----|---------|---------|
| G CI | 10026 | me | correct | answer: |

- 1. An object potential energy is zero when the object
 - a. is at the maximum height. b. is at the Earth's surface. c. mass increases.
- 2. Heat transfers by convection occurs through
 - a. liquids only. b. gases only. c. liquids and gases.
- 3. is an example for micro-organisms.
- b. Sloth c. Snail a. Amoeba
- 4. Spider has pairs of jointed legs.
- b. three c. four a. two

Question

Write the scientific term for the following:

- 1. The smallest part of matter that can exist freely having the properties of matter.
- 2. The transfer of heat from hot object to another without any need for a material medium through which heat transfers.
- 3. The ability of some living organisms to simulate the dominant environmental conditions to be hidden from their enemies.
- 4. The sum of potential and kinetic energies.
- 5. A group of similar living organisms in shape that can reproduce to give birth of new fertile individuals.
- 6. Energy is neither created nor destroyed but it can be transformed into another form.

Write the symbols for the following elements:

- 1. Aluminium. 2. Bromine. 3. Calcium. 4. Flourine. 5. Oxygen.
- Calculate the density of a piece of copper, if you know that its mass equals 60 gm, and its volume equals 10 cm³

Question

What happens when ...?

- 1. Leaving a piece of iron exposed to moist air for a period of time. And why?
- Dipping a copper rod and a zinc rod connected by a wire in diluted sulphuric acid.
- 3. Increasing the speed of a moving object to double. And why?

B Complete the following sentences:

- 1. If the height of an object increases to double, its potential energy increases to
- 2. Jerboa undergoes to overcome the in temperature.
- 3. In the car dynamo energy is changed into energy.





- 4. Pollution produced from the web of cellular phone.
- 5. A modification in behaviour, structure of function of a living organism to become more adapted with environment.

| B What is meant by ? | | | | | | | |
|--|---|-----|---|--|--|--|--|
| 1. The kinetic energy of an object = 20 joules. | 2. Camouflage. | | | | | | |
| 3. Melting point of ice = 0°C | 4. Density of metal = 7.8 gm/cm^3 . | | | | | | |
| Write the electronic configuration of : | | | | | | | |
| 1. 16O 2. 23Na | | | | | | | |
| Then find: | | | | | | | |
| a. Number of neutrons. b. number of energy levels. | | | | | | | |
| Question 2 | | | | | | | |
| ⚠ Complete the following : | | | | | | | |
| The liquid element whose molecule composed element which its molecule composed of two at | | qui | d | | | | |
| An alloy of is used in making jewel heating coils. | s, but alloy is used in makir | ıg | | | | | |
| 3. In the simple cell, energy changes in | nto energy. | | | | | | |
| The number of jerboa's upper jaw incisors eq rabbit's upper jaw incisors equals | uals and the number of the | | | | | | |
| 5. The symbol of potassium atom is, w | hile the symbol of silver atom is | | | | | | |
| 6 is from very active metals but | is from inactive metals. | | | | | | |
| B Give reasons for : | | | | | | | |
| 1. Freezer is found at the top of the fridge. | | | | | | | |
| 2. Some plants pounce insects. | | | | | | | |
| 3. The electrons are distributed to fill the (K) lev | vel before filling the (L) level. | | | | | | |
| 4. Frog hibernates in winter. | | | | | | | |
| Find the potential energy of an object, whose me from the ground. (acceleration of gravity = 10) | | 10 | m | | | | |
| Question 3 | | | | | | | |
| Put (✓) or (x) and correct the wrong ones: | | | | | | | |
| 1. Electron transfers from (N) energy level to (K | () by gaining quantum. | (|) | | | | |
| 2. Euglena from multicellular living organisms. | | (|) | | | | |
| 3. The transfer of heat through copper is by conduction. (| | | | | | | |
| Angiosperms are called flowering plants. | | (|) | | | | |
| When the ball of pendulum goes away from increases. | ts original position, its kinetic energy | (|) | | | | |
| 6. At mid height divide (K.E.) over (P.E.) of obj | ect = 1 | (|) | | | | |
| | | | 1 | | | | |

B What will happen if ...?

- 1. The legs of camel do not end with thick flat pads.
- 2. The mass number equals the atomic number in the nucleus of an atom of an element.
- 3. You add 100 cm³ of ethyl alcohol to 400 cm³ of water.
- 4. Overuse of chemical pesticides.

Mention the formula by which you can:

- 1. Calculate the number of electrons that saturates each energy level from one to four.
- 2. Show relation between mechanical energy, kinetic energy and potential energy.

Question

4

Choose the correct answer :

- 1. Nucleus of atom is charged.
 - a. positively
- b. negatively
- c. neutrally
- d. all are right
- 2. belongs to animals that have no body support.
 - a. Mussel
- b. Hedgehog
- c. Octopus
- d. Snake
- 3. In the solar cell, the solar energy is directly converted into energy.
 - a. kinetic
- b. light
- c. electric
- d. heat
- 4. Distance among molecules are very small in
 - a. water.
- b. copper.
- c. hydrogen.
- d. oil.

- 5. Birds migration represents adaptation.
 - a. anatomical
- b. functional
- c. structural
- d. behavioural
- 6. By increasing the height to double and decreasing the mass of an object to half the potential energy will
 - a. increase to double. b. decrease to half.
- c. not change.
- d. increase four times.

B Choose the odd word out, then write the scientific term for the other words:

- 1. Iron Copper Aluminium Wood.
- 2. Dieonea Drosera Amoeba Halophila.
- 3. Whale Bat Dolphin Sea lion.
- Spiders Locusts Flies Cockroaches.

Give the difference between:

- 1. Solid material and gaseous material
 - (Concerning: intermolecular space, intermolecular force).
- 2. Electric heater and solar heater
- (Concerning: effect on the environment and kind of energy resource).

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El-Dakahlia Governorate

Educational Directorate
Science Inspectorate

Answer the following questions:

Question



- 1. The measuring unit of density is
 - a. m/s.

b. gm/cm³

c. kg/s.

- 2. is from the compound molecules.
 - a. Cl₂

b. H,O

c. Fe

- 3. is from the inert gases.
 - a. He

b. Al

- c. Cl
- 4. The number of electrons that saturates the level (K) is
 - a. 8

b. 2

c. 32

- 5. Resource of permanent energy is
 - a. petrol.

b. the Sun.

- c. coal.
- 6. Dynamo converts mechanical energy into energy.
 - a. electric

b. nuclear

c. solar

- 7. haven't a body support.
 - a. Snails

b. Dogs

c. Jellyfishes

B Fill in the following table after coping it in your answer sheet:

By knowing that (Mass number = Number of protons + Number of neutrons).

| | Atomic number | Mass number | Number of protons | Number of neutrons |
|----------|---|----------------|---|----------------------|
| Hydrogen | 1 | 1 | | |
| Calcium | 20 | 472-4-27-11-11 | *************************************** | 20 |
| Carbon | ************* | 12 | ************* | 6 |
| Chlorine | *************************************** | 35 | 17 | 15500 1550 1550 1550 |

Mention the formula (law) by which you can determine :.

- 1. The number of electrons in each energy level.
- 2. The work done.
- The weight of an object.

المعاصر علوم لغات (Notebook) / ۱ع/تيرم ١ (م: ١٩)

PART

Question

2

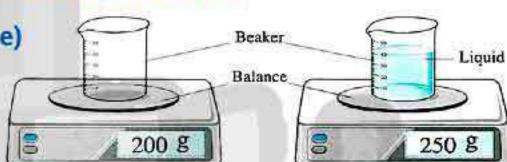
Put (✓) or (x) with correcting the false ones:

- 1. Water is used to put out petrol fires.
- 2. Mass number is the number of neutrons in the nucleus. ()
- 3. Wood and copper are bad conductors of electricity. ()
- 4. Chemical energy can be stored in stretched spring. (
- 5. Fuel in a car as food for a man. (
- 6. The measuring unit of potential energy is the joule.
- 7. The hydrogen molecule consists of two hydrogen atoms. (

(B) The diagram shows an experiment to find the density of a liquid

By using the formula (Density = Mass/Volume)

Calculate the density of the liquid.



Give reasons for:

- 1. The atom is electrically neutral.
- 2. The mass of the atom is concentrated in its nucleus.
- 3. Freezer is found at the top of the fridge.
- 4. Cooking pots are made up of aluminium.

Question 3

Mrite the scientific term:

- 1. The number of positive protons in the nucleus.
- 2. The ability to do work, or to make a change.
- 3. The simplest pure form of matter which can't be analyzed simpler.
- The matter which doesn't take the shape of the container.
- Amount of energy which an electron loses or gains to transfer from an energy level into another one.
- 6. Temperature at which solid state begins to change into liquid one.
- 7. A modification in behaviour, structure or biological function of living organisms to become more adapted with the environmental conditions.
- B Write the electronic configuration of the following atoms : $^{39}_{19}K$ $^{7}_{3}Li$ $^{19}_{9}F$ $^{40}_{18}Ar$

Fill in the following table after copying it in your answer sheet:

(Heat energy - Wind - Food - Sound energy- Electric energy - The Sun).

| Energy forms | Energy resources | | |
|---|---|--|--|
| | *************************************** | | |
| | | | |
| *************************************** | | | |

Question

A Problem:

A ball was launched upwards and vertically at a speed 3 m/s up to a height 4m. Calculate the mechanical energy of the ball if its weight is 5 newtons and has a mass 0.5 kg.

- Write the name of each chemical symbol of the following:
 - 1. P
- 2. Ne
- 3. Si

4. N

Study the figure, then mention:

Heat transfers through different media by: (conduction, convection and radiation). Mention the method of transferring heat in each area (A, B, and C).



- D State one difference between:
 - 1. Potassium and gold. (Concerning chemical activity)
 - 2. Insects and arachnids. (According to the number of legs)
 - 3. Solid and gas. (Concerning the intermolecular spaces)
 - Hydrogen and Helium. (According to the number of atoms in its molecule)

Ismailia Governorate

Science Inspectorate

Answer the following questions:

Question



- Complete the following statements:
 - 1. The liquid element which consists of one atom is called
 - 2. An example for a very active metal is
 - 3. Friction turns kinetic energy into energy.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

الصف الأول الأعدادي مركع الكول التعليم كتاب الم

| 10. The transfer of h | eat with no need for | a medium is called | ******** |
|---|---|---------------------------|----------------------------|
| a. convection. | b. radiation. | c. conduction. | d. no correct answer. |
| How can the follow | ing be adapted to t | heir environment : | |
| 1. Stick insect to hid | e from its enemies. | | |
| 2. Quail bird to over | come the decrease in | temperature. | |
| Calculate the weight | of a body whose p | otential energy is 88 joi | ules and it is at a height |
| of 11 m. | | | |
| Question 3 | | | |
| Write the scientific | term : | | |
| 1. Energy is neither c | reated nor destroyed | , but it can be changed | from one form to another |
| | e living organisms to ies or capture insects | | environmental condition |
| The amount of ene level to another. | rgy lost or gained w | hen an electron transfers | s from one energy |
| The result of comb weight ratios. | oination between two | or more different eleme | ents with constant |
| The temperature at liquid state. | which a substance s | starts to change from the | solid state to the |
| 6. The smallest part of | of matter which can | exist alone and keep pro | perties. |
| Give one example fo | r each of the follov | ving : | |
| I. Aestivation in anim | nals. | | |
| 2. A solid substance v | vhich is soft at room | temperature. | |
| 3. Plants that can't be | distinguished into r | oots, stems and leaves. | |
| 4. A bird whose beak | is wide indented in t | the two sides. | |
| Put (✓) in front of ri | ight statement and | (x) in front of wrong o | ne : |
| 1. Heat is transferred | | | |
| 2. The intermolecular | forces are very stro | ng in gases. | () |
| 3. In the car dynamo | , electric energy is cl | hanged into kinetic ener | gy. () |
| 4. Bean plant is a dice | otyledon plant. | | () |
| | | | |

الصف الأول الأعدادي مركع الكرائي التعاسر

- 1. The atom is electrically neutral.
- 2. Camel limbs end in a thick flat pad.
- 3. Heater is put at the bottom of the room.

150

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصواقع

| Question | |
|----------|----------|
| ane2riou | 4 |
| | Allerand |

- Write the scientific term for each of the following statements:
 - 1. The basic classification unit for living organisms.
 - The amount of energy that gained or lost by the electron to transfer from an energy level to another.
 - 3. The temperature at which a solid substance starts to change into liquid.
 - 4. Energy is neither created nor destroyed, but it is converted from one form to another.
- When a piece of copper of mass 156 gm is put in a graduated cylinder containing 100 cm³ of water, the reading of cylinder becomes 120 cm³ Calculate the density of copper.
- O Compare between:
 - 1. Solids and liquids. (According to attraction force)
 - 2. Bean and pine plants. (According to seeds)
 - 3. Heat energy and temperature. (Concerning: definition)

Question ____

- Write down the electronic configuration of the following elements:
 - 1. 11 Na
- 2. 17Cl
- 3. 10Ne

- B What happens when ...?
 - 1. Using water in putting out petrol fires.
 - 2. Camel exchanges its pad with a horse's hoof.
 - 3. Friction between a tire of a bicycle and a rough surface.
 - 4. An electron gains a quantum of energy.
- Put (√) in front of the correct statement and (x) in front the incorrect one, then correct the wrong ones:
 - Aestivation is the behaviour that some animals do by hiding in burrows to avoid low temperature in winter.
 - 2. The mass number is the number of protons and electrons.
 - 3. Potential energy of an object decreases by increasing its height.

 4. The motion of gases is completely free.
 - 4. The motion of gases is completely free.

Question

- **A** Choose the correct answer:
 - 1. The following animals have no body support except
 - a. worms.
- b. octopus.
- c. jellyfish.
- d. fish.

بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والصولة

موقع والكرولي التعليمي

الصف الاول الاعدادي

| Question | 2 |
|----------|---|
| | |

| - | | | |
|---|--------|-------------|---------|
| | Chanca | the correct | |
| | CHOOSE | me correct | answer. |

1. An object of 20 N weight is placed at 5 m height, it has potential energy

a. 50 J.

b. 100 J.

c. 150 J.

2. From animals with internal support:....

a. octopus.

b. snails.

c. fish.

3. Positive charged particles in the nucleus of atom are

a. neutrons.

b. protons.

c. electrons.

4. Potassium is symbolized by

a.P

b. K

c. B

5. From gymnosperms plants:

a. wheat.

b. pine plant.

c. maize.

6. Density measuring unit

a. cm³

b. gm.

c. gm/cm³

7. In the solar batteries the solar energy is directly converted into energy.

a. light

b. sound

c. electric

8. Heat is transferred by radiation through

a. liquids only.

b. gases only.

c. material media and non-material ones.

(1) Write the electronic configuration of :

23₁₁Na

27 13Al

· Then determine each of the following:

1. Atomic number.

Mass number.

3. Number of neutrons.

(2) What is meant by the following ... ?

Mechanical energy of an object is 100 joule.

Question

3

M Give reasons for :

- 1. Water is not used in extinguishing petrol fires.
- 2. Camel limbs ends in a flat thick pad.
- 3. It is difficult to bend iron rod.
- 4. Inert gases cannot share in chemical reaction in ordinary conditions.
- 5. The heater is placed on the ground.

المعاصر علوم لغات (Notebook) / اع/تيرم ١ (م: ٢٠)

Answer the following questions:

Question

Choose the correct answer:

1. The monoatomic liquid is

a. Hg

b. Ag

c. Mg

d. Br

154

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخ

| 2. The heat of the | Sun is transferred to | us by | | | |
|--|--|------------------------------|------------------------------|--|--|
| a. convection. | | b. radiation. | b. radiation. | | |
| c. conduction. | | d. conduction an | d radiation. | | |
| 3. The rule which | is used to find the ele | ectronic configuration fo | or the first four energy | | |
| levels is | | | | | |
| $a. 2^2 n$ | b. 2n ² | c. 2n | $d. n^2$ | | |
| From gymnosp | erms plants is | **** | | | |
| a. wheat. | b. pine. | c. maize. | d. pea. | | |
| 5. An object of ma | ass 1 kg moves at spee | ed 4 m/s., so it has a kinet | ic energy = ····· joule. | | |
| a. 16 | b. 8 | c. 64 | d. 4 | | |
| | umber of an element atom of this element | | this means that there aren't | | |
| a. electrons | b. protons | c. neutrons | d. photons | | |
| Give reasons for | each of the followin | g : | | | |
| 1. When a zebra r | nates a donkey, they | an't produce fertile indi | viduals. | | |
| The volume of before mixing. | a mixture of water an | d alcohol is less than the | sum of their volumes | | |
| 3. There are front | teeth extending outw | ard in hedgehog. | | | |
| 4. Balloons which | filled with helium ga | as rise up in air. | | | |
| Question 2 | | | | | |
| Write the scientif | ic term for each of t | he following : | | | |
| 1. It is the atom w | hich gains a quantum | of energy. | | | |
| 2. The basic class | ification unit for livin | g organisms. | | | |
| 3. The simplest pu | are form of matter wh | ich can't be analyzed ch | emically into simpler form. | | |
| | ndition which determ in contact with anothe | ines whether heat transfer. | ers from or to an object | | |
| Mention one use | or importance for ea | ach of the following: | | | |
| 1. Nickel-chrome | alloy. | 2. Solar cell. | | | |
| 3. Palm legs in du | cks. | 4. Stainless steel | alloy. | | |
| 9.5 | | | - Vert x104 (\$4.0) | | |

155



Find the number of neutrons, number of electrons and its chemical activity for each

2. 20 Ne

of the following atoms:

1. 27 Al



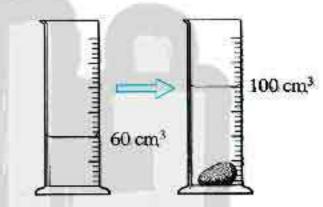
Question

- Complete the following statemetns:
 - 1. solution is a good conductor of electricity, but solution is a bad conductor of electricity.
 - 2. Simple cell converts energy into energy.
 - 3. Spiders are classified from but is classified from myriapods.
 - 4. Potassium 19K has electron/s in the outermost energy level, but 18Ar has electron/s in the outermost energy level.
- B What do you expect in each of the following cases ...?
 - 1. Predatory plants can't capture insects.
 - 2. Increasing mass of an object. (Concerning its density)
 - 3. Friction between bicycle wheels and a rough surface.
- Study the opposite figure which represents:

The volume of water before and after put a stone on it.

Find the density of this stone if its mass = 80 gm?

Question



- Ocrrect the underlined words in the following statements:
 - 1. The atom mass is concentrated inside the electrons.
 - 2. Measuring unit of weight is joule.
 - In rodents the incisors number in the lower jaw is three pairs.
 - Gold is from very active metals.
- Compare between :
 - 1. Ammonia gas and hydrogen chloride. (in terms of : no. of elements no. of atoms)
 - 2. Hibernation and aestivation. (in terms of : definition example)
- Two players play volley ball, If the mass of the ball is 1.5 kg and gravity is 10 m/s2, Find:
 - 1. Potential energy at position (1) that represents the maximum height, if the net at height = 2m.
 - 2. Mechanical energy at position (2) that represents the ground.



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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

El-Minia Governorate

Minia Directorate Kafr El-Mansoura Language School

Answer the following questions:

Question

| - | Mark Mark Color And Color | | CENTREST TOTAL CONT. | |
|---|---------------------------|-----|----------------------|-------------|
| A | Complete | the | following | sentences |
| | | | | 20110011003 |

- 1. and are teethless mammals.
- 2. Light posts in streets are painted from time to time to protect them from
- 3. An object of 20 N weight is placed at a height of 5 m, has potential energy equals
- 4. An alloy of is used in making jewels, while an alloy of is used in making heating coils.

B Write the chemical symbols of:

- 1. Sliver.
- 2. Calcium.
- 3. Aluminium.
- 4. Helium.

State one difference between:

1. A rabbit and a squirrel.

2. An element and a compound.

Question

Choose the correct answer:

- 1. The property of electric conduction is distinguishing factor between
 - a. iron and copper.
 - b. wood and plastic. c. iron and wood.
- d. plastic and glass.

- 2. The scorpion belongs to
 - a. insect.
- b. myriapods.
- c. arachnids.
- d. mammals.

- 3. Heat transfers from heater by
 - a. conduction and radiation.
- b. radiation and convection.
- c. conduction and convection.
- d. radiation only.

Give reasons for:

- 1. When adding an amount of water to alcohol the volume of mixture is less than the sum of their volumes before being mixed.
- 2. The equation (2n²) is not applied on levels higher than 4th level.
- 3. Wood floats on water surface, while a piece of iron sinks.
- 4. The freezer is found at the top of the fridge.

Write the scientific configuration for:

1. 24Mg

2. 16O

بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أ

- 2. Energy stored in the object due to the work done on the object.
- 3. Energy gained or lost to transfer an electron from an energy level to another.
- 4. The basic unit of classification in living organisms.
- Imaginary places in which electrons can move according to their energies.
- 6. It is the mass of unit volume of the substance.

158

س بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع

B Mention one example of each of the following:

- 1. Very active element.
- 2. Device converts electric energy into light energy and heat energy.
- 3. Liquid element its molecule consists of one atom.
- 4. Permanent source of energy.
- 5. Species of birds adapted by bird migration.
- 6. Mammals have paddles for swimming.

Compare between each of the following:

Rodents and lagomorphs. (According to number of teeth in the upper jaw - example).

Question

2

Give reasons for :

- 1. It is very hard to fragmentize a piece of iron with your fingers.
- 2. The atom is electrically neutral.
- 3. Hedgehog has front teeth extending outwards.
- Neon atom (10Ne) does not enter a chemical reaction through the ordinary conditions.

B Choose the correct answer:

- 1. The property of electric conduction is a distinguishing factor between:
 - a. iron and copper.

b. wood and plastic.

c. iron and wood.

- d. copper and aluminium.
- 2. As doubling height to which an object is raised from ground, so the
 - a. kinetic energy is increased to its double value.
 - b. potential energy is increased to 3 times.
 - c. potential energy is increased to its double value.
 - d. mechanical energy is increased to 4 times.
- Energy is neither created nor destroyed, but it can be transformed into another form of energy, this law is known as law of......
 - a. conservation of energy.

b. conservation of matter.

c. kinetic energy.

- d. Earth's gravity.
- 4. The scorpion belongs to
 - a. insects.
- b. myriapods.
- c. arachnids.
- d. mammals.
- 5. Mechanical energy is converted into heat energy by means of
 - a. electric generator.

- b. electric heater.
- c. friction among moving particles with each other.
- d.electric motor.

- O A stone of 3 kg mass falls from 6 m height, what is its potential energy? And what is its kinetic energy? In each of the following:
 - 1. At the start of falling.
 - 2. At height 2 m.
 - 3. On reaching ground. (considering gravity acceleration = 10 m/sec².)
- Study the following atoms, then answer:

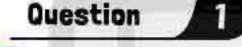
| Points of comparison | 35 17Cl | ⁴ ₂ He |
|--|------------|---|
| 1. Number of electrons in outermost energy level of each atom. | | |
| 2. Number of neutrons inside nucleus of each atom. | | *************************************** |
| 3. Number of energy levels which have electrons of each atom. | | |

Luxor Governorate

Science Inspectorate

Answer the following questions:

Question



- A Choose the correct answer:
 - 1. is the monoatomic liquid molecule.
 - a. Bromine

b. Mercury

- c. Iodine
- 2. is an example of plants that reproduce by seeds.
 - a. Adiantum
- b. Vougheir
- c. Bean
- 3. By increasing the kinetic energy of particles, their increases.
 - a. weight

- b. temperature
- c. volume
- 4. The electric energy is converted into kinetic energy in
 - a. electric lamp.
- b. electric fan.
- c. electric heater.

- 5. bird migrates in winter.
 - a. Quail

b. Duck

c. Sparrow

- What is meant by ...?
 - 1. Micro-organisms.
 - 2. Conservation law of energy.
- Write the symbol of each one of the following elements:
 - 1. Gold
- 2. Sodium
- 3. Oxygen

- 4. Carbon
- 5. Phosphorus

المعاصر علوم لغات (Notebook) / ١١ / تيرم ١ (م: ٢١)

161

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى





@ Problems:

- 1. The density of alcohol is 0.8 gm/cm³. Find the volume of 80 gram of it.
- 2. Find the potential energy of an object, whose mass is 6000 gram when it is found at a height of 10 m from the ground. (gravity acceleration = 10 m/s²).

25

Aswan Governorate

M.M. Yaakoub Formal Language School

Answer the following questions:

Question

1

O Complete the following sentences:

- 1. The hydrogen molecule consists of, while the helium molecule consists of
- 2. Friction turnsenergy into energy.
- 3. Heat transfers by convection in and
- 4. andare from plants that reproduce by spores.
- 5. The frog is an example for, while jerboa is an example for

B Calculate:

The kinetic energy of an object its mass is 2 kg and moving at a speed of 5 m/s.

Question

2

A Choose the correct answer:

- 1. Silver is symbolized by
 - a. Hg
- b. Au
- c. Ag
- d. Cu
- 2. Attraction force between solid molecules is
 - a. large.
- b. small.
- c. very small.
- d. not found.
- 3. The number of energy levels in the heaviest atom is
 - a. 7

b. 8

- c. 18
- d. 32

- 4. Resource of permanent energy is
 - a. The Sun.
- b. Coal.
- c. Petrol.
- d. Nuclear reactions.

- 5. The cockroach belongs to
 - a. insects.
- b. myriapods.
- c. arachnids.
- d. mammals.

B Give reasons for:

- 1. Atom is electrically neutral.
- 2. Some plants pounce insects.



Question

3

- Write the scientific term for each of the following:
 - 1. The temperature at which a matter changes from a liquid state into gaseous one.
 - 2. The smallest individual unit of matter which can share in a chemical reaction.
 - 3. Energy is neither created nor destroyed, but it is transformed into another form.
 - 4. A modification in behaviour, structure, biological function of a living organism's organs to be more adjustable with the environmental conditions where it lives.
 - 5. The ability of some living organisms to be hidden from their enemies or preys.
- (B) Mention the formula by which you can calculate:
 - 1. The density.

2. The number of electrons in each energy level.

Question



(A) Choose from (B) what suits it from (A):

| (A) | (B) |
|-------------|-----------------------|
| 1. Julius | a. Insect |
| 2. Scorpion | b. Rodent |
| 3. Sloth | c. Myriapod |
| 4. Rat | d. Lagomorph |
| 5. Rabbit | e. Arachnid |
| | f. A teethless mammal |

- B Write the electronic configuration of the following atoms :
 - 1. 27Al

2. 40Ar

26 South Sinai Governorate

Tur Sinai Directorate

Answer the following questions:

Question



- **O** Complete:

 - 2. Potential energy = ×

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلوم

- 3. An alloy of is used in making jewels, while an alloy of is used in making cooking pots.
- 4. Hawks have beaks, while ducks have beaks.
- 5. Heat transfers through solids by, while through non-material media by

D Compare between:

- 1. Element and compound (According to definition only).
- 2. Insects and arachnids (According to number of legs- examples).

Study the opposite figure then:

- 1. Mention the name of the opposite device.
- 2, Label the figure.
- 3. Write the change of energy in this device.

Write one importance of:

1. The front teeth in hedgehog.

2. Helium gas.

Question

Choose the correct answer:

- 1. The number of atoms is equal to the number of elements in molecule.
 - a. water
- b. hydrogen chloride
- c. oxygen
- 2. Among elements which has a great difficulty to react with oxygen of air is
 - a. potassium.
- b. sodium.

- c. gold.
- 3. The activity of birds during the daylight and bats during night is considered as an example of adaptation.
- a. functional
- b. anatomical
- c. behavioural
- 4. When an object is thrown upwards its
 - a. potential decreases,
- b. speed decreases.
- c. mechanical energy decreases.
- 5. In car dynamo the energy changes from
 - a. heat to mechanical.
- b. electric to heat.
- c. mechanical to electric.

Study the opposite figure which represents the nucleus of an element, then find:

- 1. The mass number.
- 2. The number of energy levels having electrons.
- 3. This element active or inactive? Give reason for your chosen.

Write an example of:

- 1. Liquid element composed of two atoms.
- 2. An insectivorous plant.

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هذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى العمف الاول الاحدادي مصفى التعليمي العمد الدي الاحدادي المعمد العمد الدي المحمد العمد العمد



Final Examinations of some Governorates.

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة

Cairo Governorate

Nozha Language Schools

| Question 1 | | |
|--|--|---|
| Complete the following | g statemonts : | |
| 1 and | are considered as forms of | f energy. |
| | e consists of two at | oms, while the ammonia molecule atoms. |
| 8. Limbs are modified i | nto wings in bats for | , while into paddles in whales and |
| dolphins for | in water. | |
| The attraction force a molecules of water. | among the molecules of copp | er is than that between |
| 8. Scorpion has | pairs of legs, while ants ha | ive pairs of legs. |
| 6. The heat transfers by | convection through | and materials |
| Cross the odd word ou | t: | |
| 1. Aluminium Sulphu | // Copper / Iron. | |
| 2. Jellyfish Armadillo | / Earthworm Octupus | |
| 3. Helium Oxygen N | leon∦ Argon. | |
| Question 2 | | |
| Choose the correct ans | swer: | |
| 1. The atom is electrica | illy | |
| a. positive. | b. neutral. | c. negative. |
| 2 are from ar | nimals that have an external s | support. |
| a. Mammals | b. Snails | c. Birds |
| 3. The produced energy | by burning the fuel is | energy. |
| a potential | b. nuclear | c. heat |
| The volume of a mix 500 cm ³ . | ture of 300 cm ³ of water and | 200 cm ³ of ethyl alcohol is |
| a. less than | b, more than | c. equals |
| 3. Secretion of poison i | n the snakes is a ad | laptation. |
| a. structural | b. functional | c. behavioral |



هذا العمل حصرى على موقع ذاكرولى التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى للمزيد من أعمالنا الحصرية تفضل بزيارة موقعنا الالكتروني من هنا https://www.zakrooly.com

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|----------|--|-------------------------------------|--|
| | 6. The number of electrons | s that saturates an energy level (| n) = ······ |
| | a.n ² | b. 2n | c. 2n ² |
| V | 7. The electric cell is comp | oosed of solution with | two different metals dipped in. |
| | a. a salt | b. an alkali | c. an acid |
| (| B Put (✓) or (🗴) : | | |
| P | 1. As we go further from the | he nucleus, the energy of the en | ergy level decreases. () |
| 8 | 2. The heat transfers from t | he lower temperature object to th | e higher temperature object. () |
| | 3. Mercury is a liquid elen | nent that its molecule composed | of one atom. () |
| | 4. Chemical pesticides and | car exhaust are from the harms | of technology applications. () |
| Ų | Scolopendra and euglen | a are from myriapods. | () |
| Į, | Write the importance of | each of the following : | |
| | 1. Gold-copper alloy | 2. Car dyna | mo. |
| 3 | Question 3 | | #0 #1 #1 #1 |
| • | O Correct the underlined w | ords: | |
| , | 1. The symbol of copper i | s Ca while F is the symbol of pl | hosphorous. |
| 9 | 2. Frogs undergo aestivati | on in winter to overcome the de | ecreasing of temperature. |
| | | perature at which matter change | |
| <u>.</u> | 4. Friction changes the po | tential energy into electric ener | gy. |
| 1 | 5. Wood is a good conduc | tor of heat and electricity. | $\neg \lor \land \land \vdash$ |
| | 6. The mechanical energy | is the sum of heat energy and li | ght energy. |
| | 7. The density equals mass | s divided <u>area</u> . | |
| | B Give reasons for : | | |
| 9 | 1. Camel's legs end in a bi | oad pad and thick skin. | 9.77 |
| | 2. Argon atom (18Ar) does | n't enter a chemical reaction thr | ough the ordinary conditions. |
| 4 | Calculate the potential e | nergy of an object of weight 5 | 0 newtons that placed at |
| 1 | height 5 metres. | | 1.62 |
| | Question 4 | | |
| 6 | Write the scientific term | | S\$3 |
| | | unit of matter which can share | in chemical reaction. |
|) | https://www.z | وقعنا الألكتروني من هنا akrooly.com | هذا العمل حصرى على موقع ذاكرولى التعليم للمزيد من أعمالنا الحصرية تفضل بزيارة م |
| | 1 64 1 60 | 1-1-0m 0-2-10-0- | 0.04 4 - 0.04 9 - 0.04 2 - 04 |

gm)

9

www.zakrooly.com التحسل التعاطسي الكول Science It is a modification in the living organism body structure, function or behavior to be adapted with its environmental conditions.

- 8. It is a permanent resource of energy.
- 4. An amount of energy that gained or lost to transfer an electron from one energy level to another.
- The way of transferring the heat through solids.
- The figure represents the electronic configuration of the atom of an elements Determine:
 - The atomic number.
 - . The mass number.
 - 3. The number of energy levels.
 - 4. The number of electron in the last energy level.
- Match from column (B) what is suitable for column (A):

| (A) | , (B) |
|---------------|---|
| 1. Chameleon | a. reproduce by formation of spores. |
| 2. Voughair | b. colours itself with the dominant colours of |
| 3. The jerboa | surrounding environment to capture the prey. |
| 4. Drosera | c. from the insectivorous plants. |
| 5. Rat | d. undergoes aestivation in summer to escape from high temperature. |
| | e. is an example of rodents. |

Cairo Governorate

Lycee Bab El Louk

Answer the following questions:

Juestion

- Complete the following statements:
 - 1. The matter in state has a definite shape and definite volume.
 - 2. Technology has negative effects like
 - 3. An alloy ofis used in making jewels.
 - . In the simple electric cell, energy is converted into energy.



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|------------|---|--|--|--|--|--|--|--|--|
| 0 | The pendulum can conve | rt potential energy into | energy. | | | | | | |
| | . Activity of bats during ni | ght is considered ada | ptatiòn. | | | | | | |
| W | (B) Identify: | | | | | | | | |
| 50 | 1. Species. 2. N | Melting point. | | | | | | | |
| 0 | Question 2 | | | | | | | | |
| LP | Correct the underlined wo | rds • | | | | | | | |
| 11 | If the density of a matter is 2 g/cm ³ and its volume is 50 cm ³ , the mass equals; 25 g. | | | | | | | | |
| 6 = | . Heat is transferred through | 44 FAV WI ASSESSMENT | | | | | | | |
| Vh | 101 | ted of one oxygen atom and tw | o <u>nitrogen</u> atoms. | | | | | | |
| 100 | 4. Molecules of liquid elem | ent consisted of one atom is the | e bromine. | | | | | | |
| 16 | S. Intercellular spaces amor | g molecules of solid state are | medijum. | | | | | | |
| N | 6. From plants reproduce by | formation of spores palms pl | ant. | | | | | | |
| 12 | B Give reasons for : | | | | | | | | |
| 4 | 1. Piece of iron sinks in wat | er. | | | | | | | |
| | Camel's legs has flat pad | | | | | | | | |
| 9 | Ouestion 3 | | | | | | | | |
| 1 | Choose the correct answer to complete the following statements : | | | | | | | | |
| 2 | % ! Rat has | | | | | | | | |
| 111 | wa. two pairs of incisors in | each jaw. b. one | pair of incisors in each jaw. | | | | | | |
| | three pairs of incisors i | n each jaw. d. no | correct answer. | | | | | | |
| V. | 2. The Sun is | | | | | | | | |
| | a. resource of permanent | Reference Expression Section 1997 | ource of non-permanent energy. | | | | | | |
| 3 🖁 | e. not an energy resource | | and (c). | | | | | | |
| 0 | . In the radio cassette insid | مصن امد | | | | | | | |
| 7 | \$2000 | erted into mechanical energy. | | | | | | | |
| | b. light energy is convert c. electric energy is conv | ₹88 | | | | | | | |
| | d. electric energy is conv | | | | | | | | |
| 400 | 4. Atom symbol of potassiu | AND DE CONTRACTO DE LA PROPERTO DEL PROPERTO DE LA PROPERTO DEL PROPERTO DE LA PROPERTO DEL PROPERTO DE LA PROPERTO DEL PROPERTO DE LA PROPERTO DEL PROPERTO DEL PROPERTO DE LA PROPERTO DEL PROPERTO DEL PROPERTO DE LA PROPERTO DEL PROPERTO DEL PERTO DEL PROPERTO DEL P | | | | | | | |
| 11 | THE PERSON NAMED IN COMPANY | b. Cu c. P | d. K | | | | | | |
| ~ _ | | 1 .** 4. 6 *** | | | | | | | |
| D | اله على اي مواقع احرى فعلى اي مواقع احرى https://www.zal | مى ويسمح بمشاركته فقط ولا يسمح بندار مدة منا الإلكت من من هنا rooly.com | هذا العمل حصرى على موقع ذاكرولي التعليا للمزيد من أعمالنا الحصرية تفضل بزيارة | | | | | | |
| IUI | | | المريد الل المعادد المعاري مسلم مريارد | | | | | | |

N F

gm)

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|----------|--|--|--|--------------------|---|
| 0 | 5. Some substances need | heat to get s | often such as | | |
| | a. coal. | b. iron. | c. sulph | nur. | d. rubber. |
| Oy. | Secreting sweat by skin | n is consider | ed adaptatio | n. | |
| 50 | a. structural | b. function | al c. beha | viora | d. no correct answer |
| 0 | Write the electronic con | figuration of | the following atom: | s: | |
| LP | 1. ₁₁ Na | 2. ₁₀ Ne | | | |
| 11 | Question | | | | |
| 6 | Calculate the potential e | nergy of an | object its mass is 4 l | kg. is | placed at 5 m. height |
| Vh | (consider $g = 10 \text{ m/s}^2$). | | | | |
| 100 | Mention only one differe | nce betwee | n | | |
| 166 | 1. Element and compound | 1. 2. Ho | ise fly and seomion. | | 3 Electron and proton. |
| 27 | What happens in each of | the followi | ng cases ? | | |
| 12 | When the energy of the | electron is | nore than the energy | level | in which the electron |
| | rotates. The freezer is found at | the lower na | rt of the fridge | | |
| | Friction between the fr | The state of the s | | rake | |
| 9 | | | | | |
| L | Cairo Govern | rate | Notre Dame Des | Δm | tres School Shoubra |
| W. (2) | | | 1,0,110 0 0.110 0 0.00 | , .pc | J. |
| W | Answer the following questi | ions: | | ٠. | |
| n | Ouestion | | | | |
| | Complete the following: | sentences : | | | |
| 9 | 1. The hydrogen molecule | consists of | , while the a | rgon | molecule consists |
| | Of | | | 1 | 2001 2001 |
| S | 2. The density is the is | Of unit | volume of substance a | ına 11 | s measuring unit |
| 50, | 3 and | are used in | lassifying plants. | | |
| 0 | 4. When the speed of the | pendulum is | maximum the | en | ergy is maximum and |
| LP | energy is min | imum. | 8 9 | | |
| 2 6 | Simple electric cell cha | | | | |
| A = | 6. The cockroach is from | but | scorpion is from | ••••• | ** *** *** *** *** *** *** *** *** *** |
| D | ملی أي مواقع أخرى مواقع أخرى https://www. | د يسمح بتداوله د zakrooly.con | مى ويسمح بمشاركته فقط وا موقعنا الالكتروني من هنا ا | ، التعلي بزيارة | هذا العمل حصرى على موقع ذاكرولو للمزيد من أعمالنا الحصرية تفضل ا |
| W | كتباب المعامب | | | | |

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Science

B Calculate:

- 1. The potential energy of an object whose mass is 10 kg. and placed at 5 m. height from the ground (Considering gravity acceleration 10 m/s²).
- 2. Kinetic energy of an object whose mass is 1 kg. and moving at speed of 5 m/s.
- 3. The mass of piece of sulphur whose volume is 10 cm³ and its density is 2.1 gm/cm³.

Delication Look at the opposite figure, then answer:

1. Find number of protons.

- 2. Find the mass number.
- 3. Find the atomic number.
- Find this element activity.

Question

Give reasons for each of the following :

- 1. Wood piece floats on water surface, while a piece of lead sinks in it.
- 2. Equal volumes of different substances have different masses.
- 3. Camel's legs end with broad pad.
- 4. Some plants catch and feed on insects.
- 5. The freezer is found at the top of fridge.
- 6. The volume of a mixture of water with alcohol is less than sum of their volumes before being mixed together.

Mention one example for:

- 1. Solid substance has low melting point.
- 2. Insectivorous plants.
- 3. Unicellular organism.
- 4. Alloy used in making heating coils.

Write the symbols of the following element:

- Mercury.
- 2. Sodium.
- 3. Lead.
- 4. Zinc.

Write electronic configuration for:

1. ₁₉K

2. _oF

- 3. ₁₃Al
- 4. 10Ne

Question

Write the scientific term for:

- 1. The sum of potential and kinetic energies of a body.
- 2. The temperature at which matter begins to change from solid to liquid.



هذا العمل حِصري على موقع ذاكرولي التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى للمزيد من أعمالنا الحصرية تفضل بزيارة موقعنا الألكتروني من هنا https://www.zakrooly.com

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The simplest pure form of a matter that can't be analyzed into simpler form.

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|----------|---|--------------|--------------------|--|----------|---|--|--|
| | 3. The ability to do work or to make a change. | | | | | | | |
| | 4. Energy is neither created nor destroyed, but it is converted from one form to another. | | | | | | | |
| | The ability of some living organisms to be hidden from their enemies. | | | | | | | |
| (| B Compare between : | | | | | | | |
| | 1. Arachnids and insects | . (ac | cording to the nu | mber of legs) | | 50.0 | | |
| | 2. Solids - Liquids and gases. (according to intermolecular space and intermolecular force). | | | | | | | |
| (| Calculate the density of iron cube its mass 78 gm. If that piece was immersed in 100 cm ³ of water the level of water rises to 110 cm ³ . | | | | | | | |
| 建 | Question 3 | | .5 | II.e | | | | |
| (| Choose the correct answ | ver: | | | | | | |
| | 1. Mammal animal that h | nas c | ne pair of inciso | rs in each jaw | | | | |
| | a. squirrel. | b. 1 | abbit. | c. lion. | | d. no correct answer. | | |
| | 2. The nucleus of | a | tom doesn't cont | ain neutrons. | | | | |
| | a. neon | b. I | nydrogen | c. oxygen | | d. no correct answer | | |
| | 3. The atomic number of | an | atom of an eleme | ent, its (M) end | ergy lev | vel contains 2 electrons | | |
| | is | | | | | | | |
| | a. 8 | b.] | | c. 12 | | d. 14 | | |
| | 4. Heat transfers by | | | 5,000 89 | 11 - 12 | | | |
| | | | convection | c. radiation | | d. no correct answer | | |
| | 5. The density of 12 gm. | | | | | | | |
| 20. | a. more than | D. 6 | equal to | c. less than | | d. no correct answer | | |
| (| B Write the electronic cor | 0.00 | | 3 70 . | | | | |
| | 1. 39K | $2{17}^{35}$ | Cl | 3. 40 Ar | | 4. ⁷ ₃ Li | | |
| | A force of 20 newton a of force. Calculate the v | | 1.7.1 | ve it a distan | ce 1.5 r | n. in the same direction | | |
| 1000 P | Question 4 | | | | | | | |
| (| On Give an example for : | | ⊕ ₁ | | | | | |
| | 1. An inert gas. | 2 | 2. Insectivorous p | lant. | 3.1 | Monocotyledon plant. | | |
| (| B Mention the name of th | ne d | evice which used | d to change : | | | | |
| | 1. Chemical energy to el | ectr | ic energy. | | | 9 | | |
| | 2. Electric energy to kind | etic | energy. | | | | | |
| Q. | | | | The second secon | | هذا العمل حصرى على موقع ذاكر للمزيد من أعمالنا الحصرية تفض | | |

موقع والكروان التعليمي

الصف الأول الأعدادي

gn)

12+2-2

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|------------|--|--|--|
| 9 | (If you have two elements | $\binom{14}{7}$ N - $\binom{24}{12}$ Mg) answer the follo | wing : |
| | 1. Write the name of each | one. | |
| W | 2. The atomic number of ea | ach one. | |
| 50 | | | |
| 0 | 5 Cairo Govern | orate Degla Va | Illey Language School |
| LP | Answer the following question | ons : | |
| 2 6 | Question (1) | | |
| 6 = | Section of the sectio | ontoneoe : | VA. |
| Vh | Complete the following so | | ahawaa |
| | | charge, while the proton has olids by, while heat t | (20) |
| 1 | by | onds by, while heat t | ransiers unough riquius |
| 22+ | | e energy into | ···· energy. |
| +2 | | cotyledon plants are | 3 3.3 . |
| e lo | 5. The front limbs of whale | es and dolphins are modified in | nto, while the front |
| | limbs of bats are modifie | ed into | |
| 9 , | B What is meant by ? | | |
| N | 1. The melting point. | 2. The law of conse | rvation of energy. |
| T. | Question 2 | | |
| WÎ. | Choose the correct answer | ri 🙈 🗆 🧠 🗸 | |
| 1 | 1 is from the ani | mals that make hibernation in | winter. |
| D | a. Desert snail | b. Jerboa | c. Frog |
| | 2 is a permanent | resource of energy. | •9 |
| 9 | a. Sun | b. Coal | c. Natural gas |
| | 3. All of the followings be | long to arachnids except | |
| O | a. locust. | b. scorpion. | c. spider. |
| 50 | | es the energy into lig | 5 |
| (| a. sound | b. electric | c. mechanical |
| 10 | 170 F20 070 | listinguishing factor between . | |
| | a. iron and gold. | b. wood and plastic.turated by electrons. | c. perfume and vinegar. |
| A = | a. 8 | b. 18 | c. 32 |
| | | 180001 Telephon | |
| D | https://www.zak | مي ويسمع بمساركته فقط وم يسمع بند. موقعنا الألكتروني من هنا rooly.com | هذا العمل حصرى على موقع ذاكرولي التعليد للمزيد من أعمالنا الحصرية تفضل يزيارة |
| 111 | كتاب المعاصد | COROLL SOLL (BELLES) | للمزيد من أعمالنا الحصرية تفضل بزيارة المريد من أعمالنا الحصرية تفضل بزيارة |

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- B Give reasons for :
 - 1. A piece of wood floats on the water surface, while an iron nail sinks in water.
 - 2. Some plants as drosera and dieonea pounce insects.
 - 3. The atom is electrically neutral.
- Calculate the potential energy of an object its mass is 2 kg. at a height 3 m. knowing that the gravity acceleration is 10 m/s^2 .

Puesition

- Write the scientific term:
 - 1. The work done during the motion of the objects.
 - 2. The insect which looks like the branches of the plant.
 - 3. The smallest part of matter that can exist freely having the properties of matter.
 - 4. The basic classification unit for living organisms.
- **B** Mention the use of :
 - 1. The copper-gold alloy.
 - 2. The sharp and crooked beaks in hawks.
 - 3. The simple electric cell.
- Draw the electronic configuration of the following atoms:
 - 1. 35Cl

2. 27Ne

Pursellian

- Correct the underlined words:
 - 1. The molecules of inert gases consist of two atoms.
 - 2. Friction turns the mechanical energy into magnetic energy.
 - Iron and copper are bad conductors of heat.
 - 4. The rat belongs to the lagomorphs.
 - The kinetic energy decreases by increasing the mass and speed of objects.
 - 6. The chemical symbol of silver is Si.
- Mention an example for :
 - 1. A plant reproduces by formation of spores.
 - The liquid element consists of two atoms.
 - 3. A teethless mammal.
 - A solution that is good conductor of electricity.



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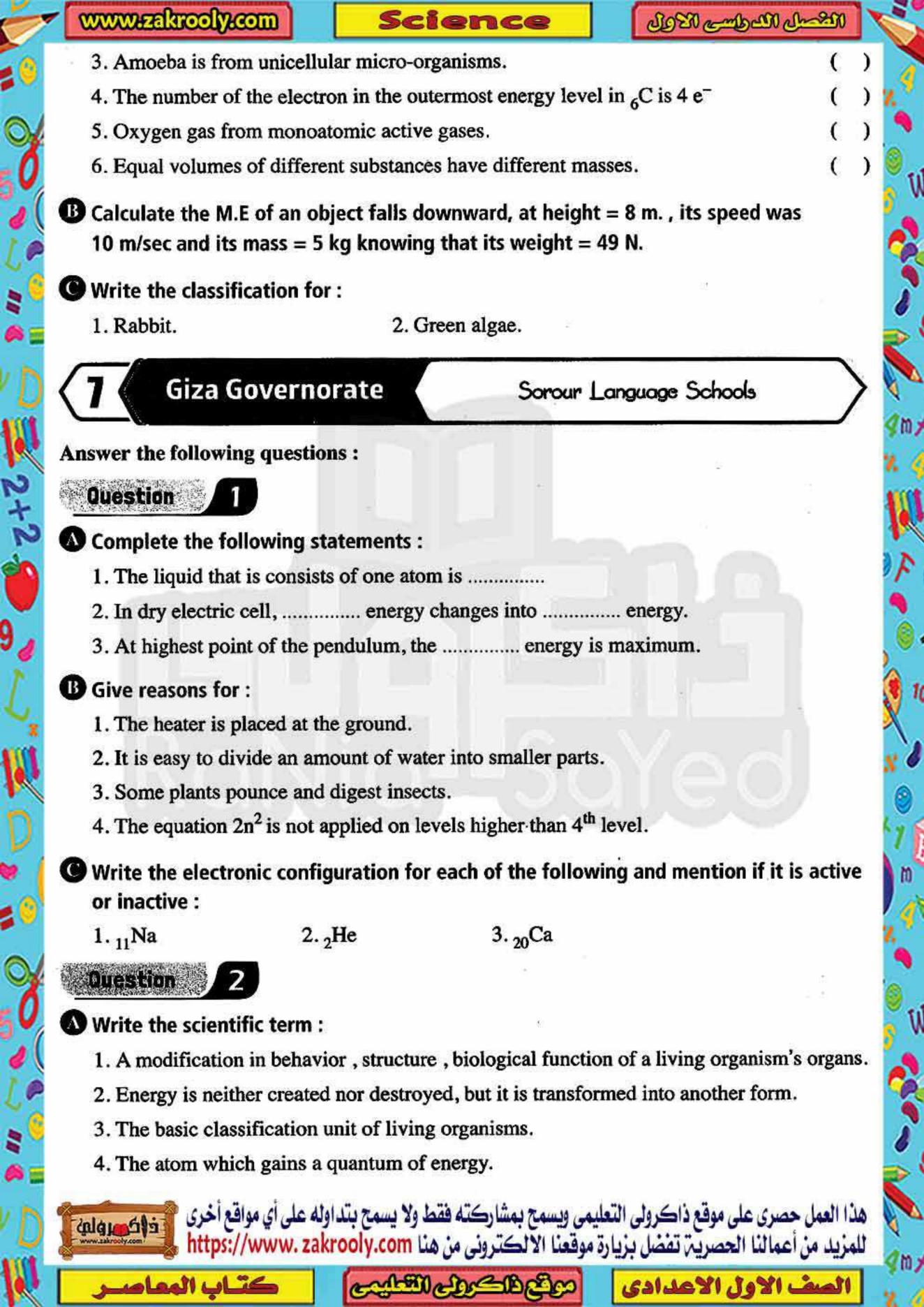
www.zakrooly.com Science التحسل الته طسى الكول Compare between: 1. Insects and arachnids (according to the number of legs). Solids and gases (according to the intermolecular spaces). Dr. Ahmed Zewail Cairo Governorate Distinguished Language School Answer the following questions: duestion Complete the following statements: 1. is the positive charges that exists in the nucleus. 2. The intermolecular spaces between iron molecules are is the way of transferring heat through space. 4. is an animal from edentates. 5. is the sum of protons and neutrons. 6. is the sum of potential and kinetic energy. (B) Calculate the mass of piece of sulpher, its volume 5 cm³, knowing that the density of sulpher 2.1 gm/cm³. Write the symbol of: 3. Iron. 4. Fluorine. 2. Calcium. 1. Sodium.

- Write the scientific term :
 - 1. The temperature at which the substance begin to change from solid to liquid.
 - 2. The monoatomic liquid.
 - 3. The atom that gains a quantum of energy.
 - A device changes solar energy to electric energy.
 - The basic classification unit of living organisms.
 - The plants which devour insects to get protein.
- B Give reasons for :
 - 1. The atom is electrically neutral.
 - 2. Neon is an inert gas.









كتباب المعاصير

Giza Governorate

Abou Elnomrous Directorate

Answer the following questions:

Question

- Complete the following statements:
 - 1. In solar cell, energy changes into energy.
 - 2. The monoatomic liquid is, while is diatomic liquid.
 - 3. Heat transfers through solids by, while through liquids by
 - 4. The front limbs of whale are modified into to helps it to
- B Give an example for :
 - 1. Very active metal.
 - 2. Dicotyledon plant.
 - 3. A device changes electric energy to heat energy.
 - 4. A solid substance which is soft at room temperature.
- An object whose mass is 2 kg. moving at a speed 5 m/sec. Calculate its kinetic energy.

Question

- Write the scientific term:
 - 1. The basic classification unit of the living organisms.
 - 2. The sum of potential energy and kinetic energy.
 - 3. The spaces between molecules.
 - 4. The smallest building unit of matter which can exist freely.
 - 5. Energy is neither created nor destroyed but it is converted from one from to another.
 - 6. The ability of some living organisms to hide from their enemies.
- **B** Write the electronic configuration and calculate the number of neutrons of :
 - 1. 35Cl

- 2. 20Ne
- 3. 16O
- Mention one difference between:
 - 1. The electron and the proton.
 - 2. Insects and arachnids.





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Mention one use or function for the following:

- 1. Nickel-chrome alloy.
- Simple electric cell.



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|---|--|--|--|--|--|--|--|--|
| Г | 3. Heat transfers by | through material media and | l non-material media. | | | | | |
| 1 | | ss, energy is changed | 200 10 | | | | | |
| l | Electrons revolve aroun | d the in orbits known | as | | | | | |
| 9 | What happens when ? | | | | | | | |
| 6 | SET 21 | a wire of simple electric cell. | | | | | | |
| | 2. Increasing the speed of | moving object to double and w | hy ? | | | | | |
| | Ouestion 2 | | ** | | | | | |
| | Write the scientific term for each of the following sentences: | | | | | | | |
| | 1. The sum of potential an | (70) | circes. | | | | | |
| 1 | 2. The number of positive | Steen Street Charles (Street Street S | | | | | | |
| 1 | (A) 1 (A) | olid state begins to change into | liquid one. | | | | | |
| ŀ | 4. The simplest pure form | of matter which can't be analyz | zed to simpler. | | | | | |
| | What is meant by each | 7 | | | | | | |
| | 1. Hibernation. | | conservation of energy. | | | | | |
| | © Compare between each of | | | | | | | |
| | | - VASS | er of elements and number of atoms). | | | | | |
| | | g to intermolecular spaces and | | | | | | |
| | Question (3) | | | | | | | |
| | * N. 276C/A PROPRIES CONTROL | | | | | | | |
| ŧ | Give reasons for each of | | | | | | | |
| | The atom is electrically neutral. The shallow water birds have long and thin beaks. | | | | | | | |
| | 56 27 50 2 27 514 | rface, while a piece of iron sin | ks in it. | | | | | |
| 1 | 4. Some plants are insective | | | | | | | |
| 1 | 5. Electric wires are made | 11-12 P -18-5- | 3.1 | | | | | |
| ì | B If the work done to move | a box a distance of 5 metres eq | ual 20 joules. Calculate the force. | | | | | |
| | Write the chemical symbol | , | . . | | | | | |
| l | 955 | 2. Gold. 3. Coppe | er. 4. Zinc. | | | | | |
| | Ouestion 4 | | | | | | | |
| | The State of the S | alasia ashin shas binda basana | | | | | | |
| | 1. The weight of an object | elationship that binds between | en each of the following : | | | | | |
| | 42.500 - 440 - 50 - 50 - 50 - 50 - 50 - 50 | s that saturates certain energy l | evel. | | | | | |
| | 3. Density, mass and volum | 1777 N. 1777 | 0,102. | | | | | |
| | F-C 35018.6 | | detti ta Ciliata a la di la | | | | | |
| | له على اي مواقع احرى https://www.za | مي ويسمح بمساركته فقط وم يسمع بنداو ممقعنا الألكت من من هنا krooly.com | هذا العمل حصرى على موقع ذاكرولي التعليد للمزيد من أعمالنا الحصرية تفضل بزيارة ا | | | | | |
| | كتاب المعاصر | موقع والمصاري | الصف الاول الاعدادي | | | | | |
| 1 | 2 | المهال المالية | G-1 | | | | | |

| www.zakrooly.com | Sci | ience | والمجسل الله طلسي الكاول |
|---|--|---|---|
| Write the electronic confinumber of protons and recognitions. | 41 H | 프라이스 보다 가능하는데 얼마나 아니라 사용하다 그 없는데 살았다. | |
| 1. 40 Ca | 2. 20Ne | 3. 35Cl | 4. 4He |
| Give one example for : | | | 200 Each 1 |
| 1. Liquid diatomic eleme | nt. | 2. Soft boo | dy organism. |
| 11 Alexandria Gove | ernorate | Al-Safwa | Integrated School |
| Answer the following questi | ions : | | |
| Question 61 | ** | | |
| Complete the following: | statements : | | |
| 1 alloy is used heating coils. | | els, while | alloy is used in making |
| 2. The monoatomic liquid | l is, | while the diatomic | liquid is |
| The electric lamp chan | ges e | nergy into | energy. |
| 4. From teethless mamma | ils are | and | |
| 5. Heat is transferred in se | olids by | , while in liquid | s by |
| B Give one example : | | | |
| 1. A very active metal. | | 2. Noble gas | |
| Animal with soft body. | | 4. Arachnids | • 1 |
| Question 2 | | | |
| Write the scientific term | | | |
| 1. The temperature at whi | ich matter begi | ns to change from | solid to liquid. |
| 2. The simplest pure form | of matter whi | ch can't be analyze | ed. |
| 3. The ability to do work | or make a char | ige. | |
| 4. The basic classification | ~ | | |
| 5. The ability of some live | | | |
| | ed nor destroye | ed but it is converte | d from one form to another. |
| B Give reasons for : | | 7) | |
| 1. Atom is electrically ne | | 2. Heater i | s placed on the ground. |
| Correct the underlined w | vords : | | |
| 1. Measuring unit of ener | gy is <u>newton</u> . | (28) | |
| 2. In solar heater, the sola | r energy is cor | verted into kinetic | energy. |
| على أي مواقع أخرى فالمحاولية المحاولية المحاو | ط ولا يسمح بتداوله بنا akrooly.com؛ | مى ويسمح بمشاركته فقد موقعنا الالكتروني من ه | هذا العمل حصرى على موقع ذاكرولى التعلي للمزيد من أعمالنا الحصرية تفضل بزيارة |

كتباب المعامس

موقع الكري التعليب

الصف الاول الاعدادي

الصف الأول الأعدادي صح الكواكورال التعليم

الصف الأول الأعدادي مركم الكالي

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Science

التحسل الكولسي الكول

- 2. The simple electric cell consists of a sugary solutions dipped in it two different metals.
- 3. Vougheir is the fern plant that reproduces by formation of seeds.
- 4. Heat is transferred from the Sun to the Earth by convection.
- Banana tree carries small-sized leaves.

B Cross out the unsuitable word:

- Locust Mosquito Cockroach Spider.
- 2. Beans Pea Pine Corn.
- Petroleum wood Cork Iron.

لا تئس الاشئراك في قنــوات نـَاكــرولي على نطييق الثليجرام

Give reasons for:

- 1. The intercourse (mate) between dog and cat impossible.
- 2. The motion of the children's swing is like that of the pendulum.
- 3. The atom is electrically neutral.

Question

Choose the correct answer:

- 1. An object of mass 2 kg. is moving at a speed of 4 m/s. has a kinetic energy joules.
 - a. 16

b. 64

- c. 32
- 2. In solar heater, solar energy is converted into energy.
 - a. light

- b. electric
- c. heat
- is from the rodents that undergo aestivation.
 - a. Rat

- b. Jerboa
- c. Desert snail
- 4. The colour property is a distinguishing factor between
 - a. Flour-sugar.
- b. silver-gold.
- c. oxygen-helium.
- 5. The third energy level is saturated by electrons.
 - a. 2

b. 18

- c. 8
- 6. A substance is solid and can't be soften by heating
 - a. copper.
- b. sulphur.
- c. aluminum.

Write the electronic configuration:

1. 23Na

2. 20 Ne

Then determine each of the following:

1. Atomic number.

Mass number.

Number of electrons.

4. Number of Neutrons.

Number of energy levels.

Chemical activity.



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كتاب المعامب

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د کے رواین

الصف الأول الأعدادي ص المعاصر

كتاب المعامب

الصف الأول الأعدادي (م الكول التحليم)

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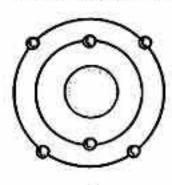
كتباب المعامب

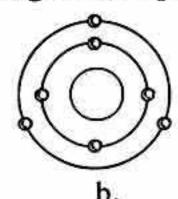
الصف الأول الأعدادي صح الكواكورال التعليم

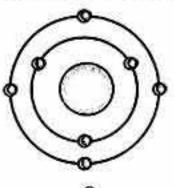
| | www.zakrooly.com | Scien | 1Ce | JD 831 6-100 FT 1 | 1-2:00 | |
|----------|--|--|--|---|--------------------|-----------|
| 9 | (B) Mention the difference be | tween each of the | following: | | | |
| 0 | 1. Insects and arachnids. | | 2. Active r | netals and inactive | metals | 3. |
| X | Give reasons for : | | | | | |
| 50 | 1. Car engine is important to | o the car. | 2. The hea | ter is placed on the | groun | d. |
| | Question 2 | | | | | |
| 8 | Put (✓) or (x) and correct | the wrong ones : | | | | |
| Š = | 1. Argon atom (40 Ar) has for | our energy levels. | | | (|) |
| h | 2. The melting point of wax | is equal to the mel | ting point of tab | le salt. | (|) |
| | 3. The kinetic energy of a st | | | | (|) |
| 1 | 4. In the electric cell, the ele | | | 521 | (|) |
| 2+1 | Insectivorous plants can't needed to make fat. | absorb the nitroge | nous substances | from the soil | 7 | ` |
| 72 | 6. The energy level "K" has | the highest energy | | | (|) |
| 4 | Write the electronic config | | | | • | , |
| | | 35 ₁₇ Cl | owing atoms . | | | |
| 90 | What is meant by ? | 170. | | | | |
| ſ. | | Adaptation. | 3 Transfer of | heat by radiation. | | |
| * | | Adaptation. | J. Hansier of | near by radiation. | | |
| W | Ouestion 3 | | | | | |
| 'n | Complete the following sta | atements : | | | | |
| 7 | 1. The density is the | of unit volume of | of a substance an | d its measuring uni | | |
| | is | and in making inve | do while on elle | of in | | |
| 9 | 2. An alloy of is u making coils. | sed ili iliakilig jewe | eis, willie all allo | y 01 18 use | in De | |
| Oy | 3. The smallest part of the e | lement that can tak | e part in a chemi | ical reaction is knov | vn | |
| 50 | as | | 90 90 | | | |
| 2 | 4. The symbol of sodium at | om is, wh | ile that of sulphi | ır atom is | | |
| LP | 5 is the basic unit | of classification in | living organism | s. | | |
| 2 6 | A ball was lunched upwards | s and vertically at | a speed 3 m/s. u | p to a height 4m. | | |
| A = | Calculate the mechanical en | ergy of the ball if it | s weight is 5 nev | vton and has a mass | s 0.5 K | (g. |
| D | https://www.zak | ركته فقط ولا يسمح بتدا وني من هنا rooly.com | التعليمي ويسمح بمشار زيارة موقعنا الالكتر | مصرى على موقع ذاكرولي أعمالنا الحصرية تفضل ب | ا العمل. زيد من | هذ للم |
| 101 | كتاب المعاصر | | | | | |

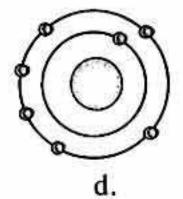
1(

3. Which of the following atoms represents an excited atom ...?









4. Amoeba, euglena and paramecium differ from each other in the

a. number of teeth.

b. number of legs.

c. kind of support.

- d. way of movement.
- 5. insect exactly looks like the plant branches.
 - a. Stick

b. Beetle

- c. Leaf
- d. Locust

Your classmate has seen a bird, he doesn't knows this bird's name but he managed to describe it as a bird with a sharp beak and the legs end in fingers with strong claws. According to your classmate story, answer the following questions:

- 1. What is the type of adaptation in both the beak and leg of this bird?
- 2. How many fingers are in each leg?
- 3. What type of food does this bird feed on?

Question

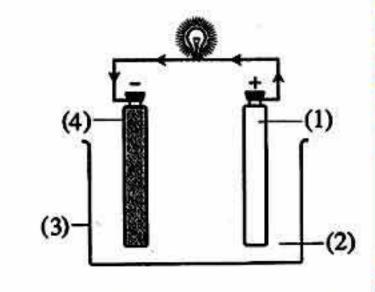
2

Put (
 ✓) or (
 ✗) for each of the following:

- 1. The fuel inside the car is similar to the food inside the body of a living organism. ()
- 2. Heat is transferred in solid materials by radiation. ()
- 3. When air is cooled, density decreases, so it falls down.
- 4. No change in the potential energy when the object moves horizontally. ()
- 5. Gymnosperms are classified into monocotyledon and dicotyledon plants. (
- 6. Smell property is a distinguishing factor between perfume and ammonia. (

(B) From the opposite figure answer the following questions:

- 1. Mention the name of the opposite device.
- 2. Label the fig.
- 3. Mention the idea of its operation.



्रिविक्रिक्

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Question

3

- Give reasons for each of the following:
 - Disappearance of a little amount of table salt when it is put in a beaker containing water for a period of time.
 - 2. The atom is electrically neutral.
 - 3. The kinetic energy will increase four times as the speed of the moving object is doubled.
 - 4. Car exhaust is considered from the negative effects of technological applications.
- Answer the following:
 - 1. The teacher advised the pupils to lie on the ground when the smoke emitted from any fire. What is your interpretation of the teacher's advise in the light of your understanding of the concept of transferring the heat by convection?
 - 2. The opposite figure represents a part of a plant.
 - a. What is the difference between this plant and bean plant?
 - b. What is the similarity between this plant and cycas plant?
 - c. Mention another example in the same classification of this plant.

Question

4

- Write the scientific term for each of the following sentences:
 - 1. The modification in the behavior of a living organism at specific times of the day or year.
 - The branch of biology that searches for the similarities and differences among living organisms.
 - 3. A group of animals that have one pair of incisors in each jaw.
 - 4. Energy is neither created nor destroyed, but it is converted from one form to another.
- **W** Write the symbol of the following elements:
 - 1. Potassium.
- 2. Aluminium.
- Chlorine.
- 4. Nitrogen.
- A stone, whose mass is 5 kg. is thrown from a height of 8 m. find its potential energy and its kinetic energy:
 - 1. at the beginning of fall.
 - 2. After reaching at a height of 2 m.
 - 3. When the stone reaches the Earth.

(Knowing that the acceleration due to gravity = 10 m/sec^2 .).



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Port Said Governorate

Port Said Integrated Language Schools

Answer the following questions:

Question

Complete the following statements:

- 1. The front limbs of dolphins are modified into to take the role of
- 2. and are from micro-organisms.
- 3. Heat is transferred through liquids by, while through space by
- 4. The belongs to insects, whereas the belongs to arachnids.
- 5. An alloy of is used in making jewels, while an alloy of is used in making heating coils.
- 6. In the dynamo, energy changes into energy.
- Draw the electronic configuration for each of the following elements:
 - 1. 40 Ar

2. 7Li

- 3. 24Mg

Give reasons for each of the following:

- 1. Some plants pounce and predate insects.
- You feel hot when you touch a hot metallic spoon.
- 3. Atom is electically neutral.
- 4. Inert gases can't share in chemical reactions.

Question

Write the word(s) that represent(s) each of the following (scientific term):

- 1. The temperature at which matter starts to change from solid to liquid.
- Ability to do work or to make a change.
- 3. The branch of biology that searches for the similarities and differences among living organisms.
- 4. The sum of potential and kinetic energies.
- 5. The ability of some living organisms to be hidden from enemies or to capture the preys.

In an experiments to determine water density, the following results are recorded:

- Mass of an empty glass beaker = 56 g.
- 2. Mass of the beaker containing water = 156 g.
- 3. Volume of the water measured by a graduated cylinder = 100 cm^3 . Calculate the water density.



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100 cm³ of water the reading becomes 120 cm³ Calculate the density of iron.



Ouestion

Write the scientific term for the following:

- 1. The number of negative electrons in the energy levels around the nucleus of the atom.
- 2. The limited amount of energy needed or loss to transfer an electron from an energy level to another.
- The ability of some living organisms to be hidden from their enemies.
- 4. The process by which some animals hide in burrows to overcome low temperature.
- 5. The temperature at which a matter begin to change from the liquid state to gaseous state.

أكتب ذأكرولي في البحث وانضم لجروبات ذأكرولي هنه رياض الاطفال للصف الثالث الاعدادي

6. It is a basic classification unit for living organism.

B Give one difference between each of the following:

- 1. Bean plant and maize plant.
- 2. Neutron and proton.
- 3. Fish and snail.
- 4. Intermolecular forces in solids and in gases.

Write the symbols of the following elements:

- 1. Calcium.
- 2. Silver.

3. Zinc.

4. Potassium.

OGive reasons for:

- 1. The atom is electrically neutral.
- 2. Drosera plant pounces insects.
- 3. It is easy to divide an amount of water into small droplets.
- 4. Some birds have long thin beaks and long thin legs.

What is meant by ...?

- 1. Adaptation.
- 2. The excited atom.

What happens when ...?

- 1. The front teeth of hedgehog are not extending outwards.
- Doubling the height of an object (concerning its potential energy).
- 3. Using water to extinguish petrol fires.

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كتباب المعامب

الصف الأول الأعدادي مركم الكالي

- 4. A form of energy which transfers from higher temperature to a lower one.
- The ability to do work.
- 6. The simplest pure form of a matter which can't be analyzed simpler.



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El-Minia Governorate

New Minia Governmental Language School

Answer the following questions:

Question

| Choose | the | correct | answer |
|--------|-----|---------|--------|
| | | | |

- 1. belongs to the animals with no body support.
 - a. Octopus
- b. Mussel
- c. Hedgehog
- d. Snake
- 2. Dynamo converts mechanical energy into energy.
 - a. electrical
- b. nuclear
- c. solar
- d. chemical
- 3. An object of mass 2 kg is moving at speed of 4 m/s. has kinetic energy of J.
 - a. 16

b. 64

- c. 32
- d. 4

- 4. is a permanent source of energy.
 - a. Wind

b. Coal

- c. The Sun
- d. Water

Write the chemical symbol of:

1. Iron.

2. Silver.

- 3. Sodium.
- 4. Calcium.

Give reasons for:

- 1. The atom is electrically neutral in its ordinary state.
- 2. The heater is placed on the ground.
- 3. Camel limbs end in a thick flat pad.

liestion

Complete the following statements:

- 1. Heat is transferred through milk by
- 2, and are from plants that reproduce by spores.
- 3. Attraction force among the molecules of mercury is
- 4. The front limbs of whale are modified into for
- 5. One of the harmful effects of mobile networks is pollution.

Give one difference between each of the following:

- 1. Bean plant and maize plant.
- Ammonia molecule and nitrogen molecule.



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An object of density 0.5 gm/cm³ and volume 10 cm³. Find its mass? And if you know the density of water is 1 gm/cm3. Does this object sink in water? And why?

Question

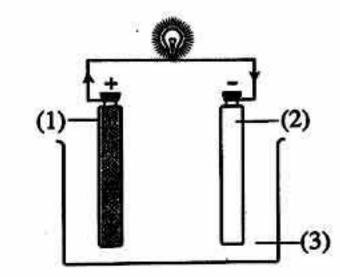
- Write the scientific term :
 - 1. The heat state of an object on which the transfer of heat from or to the object depends.
 - 2. The temperature at which the matter begins to change from the solid state to the liquid state.
 - 3. Energy is neither created nor destroyed but it can be transformed into another form.
 - 4. The ability of some body organs and tissues to do a certain function.
- What happens when ...?
 - 1. The beaks of ducks are narrow and not indented.
 - 2. The electron gains a quantum of energy.
 - 3. Using of water in putting out petrol fires.
 - 4. The height of an object is doubled (according to potential energy).
- Mention one example of each of the following :
 - 1. An insectivorous plant.
- 2. Camouflage.

Ovestion

Choose the odd word out then mention the relation between the rest:

- $1._{7}N _{10}Ne _{9}F _{11}Na$.
- 2. Mosquito Spider Cockroach Ant.
- Iron Copper Aluminium Wood
- 4. Amoeba Euglena Clover Paramecium.
- Write the electronic configuration of the following atoms:
 - 1. 23Na

- 2. 40 Ca
- Look at the opposite figure, then answer:
 - 1. Mention the name of the opposite.
 - 2. Label the figure.
 - 3. This device changes energy into energy.



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Assiut Governorate

Assiut Directorate

Answer the following questions:

Complete the following statements:

- 1. The density is the of unit volume of a substance and its measuring unit is
- 2. Hydrogen molecule is composed of atoms, while argon molecule is composed of atom.
- 3. is from the plants that reproduce by formation of spores, while is from the plants that reproduce by formation of seeds inside cones.
- 4. Mechanical energy = +
- 5. The whale's front limbs are modified into to take the role of

What is meant by ...?

- 1. Boiling point.
- 2. The potential energy of an object = 20 joules.

Write the symbols of the following elements:

- 1. Sodium.
- 2. Aluminium.

Give reasons for:

- 1. A piece of ice changes into water after a period of time when it is left in air.
- 2. Some plants pounce and digest insects.
- 3. The freezer is found at the top of the fridge.
- 4. The atom is electrically neutral.

Write the electronic configuration of the following elements, then:

- 1. ⁷Li
- 2. 24Mg
- Find the number of electrons in the outermost energy leve! in each atom.
- Calculate the number of neutrons in each atom.
- What is the mass of a body, whose kinetic energy is 64 joules and its speed is 4 m/sec?



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كهروام

هذا العمل حصري على موقع ذاكرولي التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى للمزيد من أعمالنا الحصرية تفضل بزيارة موقعنا الألكتروني من هنا https://www.zakrooly.com

Some animals hibernate in winter.



هذا العمل حصرى على موقع ذاكرولي التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى https://www.zakrooly.com للمزيد من أعمالنا الحصرية تفضل بزيارة موقعنا الالكتروني من هنا

كتباب المعامب

الصف الأول الأعدادي ويكاظكون التعليم

كتباب المعامير

الصف الأول الأعدادي صح الكواكور التعليم

كتباب المعاصب

الصف الأول الأعدادي ووقع الكول التعليم

كهرولين

هذا العمل حصرى على موقع ذاكرولي التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى للمزيد من أعمالنا الحصرية تفضل بزيارة موقعنا الالكتروني من هنا https://www.zakrooly.com